



May 19, 2005

4629.03

California Regional Water Quality Control Board (CRWQCB)
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

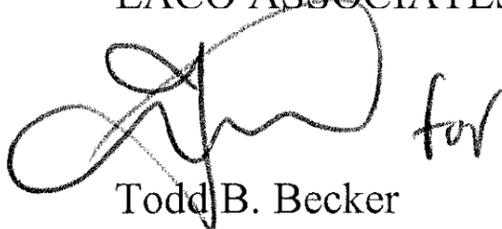
Attention: Mr. Cody Walker

Subject: Groundwater Monitoring Report; First Quarter 2005
HPI/Former Shell Bulk Plant, Underground Storage Tanks (UST) Area
400 Eighth Street, Fortuna, California
CRWQCB Case No. 1THU116

Dear Mr. Walker:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the first quarter of 2005. This report includes data indicating the 50 percent milestone of the Pay-for-Performance Program has been reached. This report has been prepared for Humboldt Petroleum, Inc. (HPI). Please call or email if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES



Todd B. Becker
Junior Geologist



Christopher J. Watt
PG 7586, Exp. 03/31/06

TBB:lnm

Attachments

cc: Jim Seiler, Humboldt Petroleum, Inc. (electronically sent)

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GROUNDWATER MONITORING REPORT FIRST QUARTER 2005

Humboldt Petroleum Inc., Former Shell Bulk Plant, Underground Storage Tank Area;
400 Eighth Street, Fortuna, California

California Regional Water Quality Control Board Case No. 1THU116

LACO ASSOCIATES Project No. 4629.03

Introduction

Field activities were conducted on January 11, February 15, March 30, and April 27, 2005, in accordance with generally accepted practices at this or similar locations. Please refer to Table A through Table D for the current groundwater monitoring regime and to LACO ASSOCIATES' (LACO's) *Standard Operating Procedures* on file at your office for details. A location and site map are provided as Figures 1 and 2, respectively.

Site Chronology

- 1993 through 2003: The monitoring well network is constructed.
- 1996: One 3000-gallon and one 4000-gallon underground storage tanks (USTs) are removed.
- November 2000: 550 cubic yards of petroleum hydrocarbon contaminated soil are excavated.
- August 2002: 510 cubic yards of petroleum hydrocarbon contaminated soil are excavated.
- May-June 2004: An *in-situ* chemical oxidation system was installed for remediation of petroleum hydrocarbon contaminated soil and groundwater.

Monitoring Regime

| Table A: Monitoring Event for January 11, 2005 | | | | | | | |
|--|--------------------------|------------|--------------|--------------------------|------------------------|------------|-------------------|
| MONITORING WELL ID | SCREENED INTERVAL (feet) | DTW (feet) | PURGE METHOD | WATER QUALITY PARAMETERS | ANALYTICALS | | SAMPLING SCHEDULE |
| | | | | | ORGANICS | INORGANICS | |
| MW1A | 5-15 | | | | | | Quarterly |
| MW15 | 4.5-14 | | | | | | |
| MW16 | 3-14.5 | | | | | | |
| MW19 | 22.5-25 | | | | | | |
| MW20 | 15.5-19.5 | | | | | | |
| MW23 | 5-10 | | | | | | |
| MW24 | 5-10 | | | | | | |
| MW25 | 5-10 | | | | | | |
| MW27 | 5-10 | 5.78 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | Dis Fe | Monthly |
| MW28 | 5-10 | 1.56 | | | | | |
| MW29 | 5-10 | | | | | | Quarterly |
| MW30 | 5-10 | 0.73 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | Dis Fe | Monthly |
| MW33 | 14-17.5 | | | | | | Quarterly |
| MW34 | 14-18 | 2.81 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | Dis Fe | Monthly |
| MW35 | 17-20 | | | | | | Quarterly |
| MW36 | 13-14.5 | | | | | | |
| MW37 | 17.25-19 | | | | | | |
| MW38 | 12-14 | 1.29 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | Dis Fe | Monthly |
| MW39 | 17.75-19 | | | | | | Quarterly |
| MW40 | 13.25-16 | | | | | | |
| MW41 | 16.5-18 | | | | | | |
| MW42 | 12-14.5 | | | | | | |
| MW43 | 16-18 | 1.63 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | Dis Fe | Monthly |
| MW44 | 12-15 | 0.99 | | | | | |

| Table B: Monitoring Event for February 15, 2005 | | | | | | | |
|---|--------------------------|------------|--------------|--------------------------|------------------------|------------|-------------------|
| MONITORING WELL ID | SCREENED INTERVAL (feet) | DTW (feet) | PURGE METHOD | WATER QUALITY PARAMETERS | ANALYTICALS | | SAMPLING SCHEDULE |
| | | | | | ORGANICS | INORGANICS | |
| MW1A | 5-15 | | | | | | Quarterly |
| MW15 | 4.5-14 | | | | | | |
| MW16 | 3-14.5 | | | | | | |
| MW19 | 22.5-25 | | | | | | |
| MW20 | 15.5-19.5 | | | | | | |
| MW23 | 5-10 | | | | | | |
| MW24 | 5-10 | | | | | | |
| MW25 | 5-10 | | | | | | |
| MW27 | 5-10 | 4.65 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW28 | 5-10 | 2.16 | | | | | |
| MW29 | 5-10 | | | | | | Quarterly |
| MW30 | 5-10 | 1.25 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW33 | 14-17.5 | | | | | | Quarterly |
| MW34 | 14-18 | 5.46 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW35 | 17-20 | | | | | | Quarterly |
| MW36 | 13-14.5 | | | | | | |
| MW37 | 17.25-19 | | | | | | |
| MW38 | 12-14 | 1.84 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW39 | 17.75-19 | | | | | | Quarterly |
| MW40 | 13.25-16 | | | | | | |
| MW41 | 16.5-18 | | | | | | |
| MW42 | 12-14.5 | | | | | | |
| MW43 | 16-18 | 2.49 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW44 | 12-15 | 2.55 | | | | | |

| Table C: Monitoring Event for March 30, 2005 | | | | | | | |
|--|--------------------------|------------|--------------|--------------------------|------------------------|------------|-------------------|
| MONITORING WELL ID | SCREENED INTERVAL (feet) | DTW (feet) | PURGE METHOD | WATER QUALITY PARAMETERS | ANALYTICALS | | SAMPLING SCHEDULE |
| | | | | | ORGANICS | INORGANICS | |
| MW1A | 5-15 | | | | | | Quarterly |
| MW15 | 4.5-14 | | | | | | |
| MW16 | 3-14.5 | | | | | | |
| MW19 | 22.5-25 | | | | | | |
| MW20 | 15.5-19.5 | | | | | | |
| MW23 | 5-10 | | | | | | |
| MW24 | 5-10 | | | | | | |
| MW25 | 5-10 | | | | | | |
| MW27 | 5-10 | 4.35 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW28 | 5-10 | 3.22 | | | | | |
| MW29 | 5-10 | | | | | | Quarterly |
| MW30 | 5-10 | 0.57 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW33 | 14-17.5 | | | | | | Quarterly |
| MW34 | 14-18 | 2.64 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW35 | 17-20 | | | | | | Quarterly |
| MW36 | 13-14.5 | | | | | | |
| MW37 | 17.25-19 | | | | | | |
| MW38 | 12-14 | 1.16 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW39 | 17.75-19 | | | | | | Quarterly |
| MW40 | 13.25-16 | | | | | | |
| MW41 | 16.5-18 | | | | | | |
| MW42 | 12-14.5 | | | | | | |
| MW43 | 16-18 | 2.06 | Cam Pump | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Monthly |
| MW44 | 12-15 | 1.34 | | | | | |

| Table D: Monitoring Event for April 27, 2005 | | | | | | | | |
|--|--------------------------|------------|--------------|--------------------------|------------------------|------------|-------------------|----------|
| MONITORING WELL ID | SCREENED INTERVAL (feet) | DTW (feet) | PURGE METHOD | WATER QUALITY PARAMETERS | ANALYTICALS | | SAMPLING SCHEDULE | |
| | | | | | ORGANICS | INORGANICS | | |
| MW1A | 5-15 | 1.67 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, BTEX, MTBE | --- | Quarterly | |
| MW15 | 4.5-14 | --- | --- | --- | | | | |
| MW16 | 3-14.5 | 12.07 | 1/2" Bailer | --- | | | | |
| MW19 | 22.5-25 | 13.85 | 3/4 " Bailer | | | | | |
| MW20 | 15.5-19.5 | 9.96 | | | | | | |
| MW23 | 5-10 | 5.90 | DHP | pH, T, ECw, ORP, DO | | | | Monthly |
| MW24 | 5-10 | 5.58 | | | | | | |
| MW25 | 5-10 | 2.32 | | | | | | |
| MW27 | 5-10 | 4.50 | | | | | | |
| MW28 | 5-10 | 3.59 | | | | | | |
| MW29 | 5-10 | 2.20 | | | | | | |
| MW30 | 5-10 | 2.15 | | | | | | |
| MW33 | 14-17.5 | 2.23 | DHP | | | | Monthly | |
| MW34 | 14-18 | 6.69 | | | | | | |
| MW35 | 17-20 | 6.01 | | | | | Quarterly | |
| MW36 | 13-14.5 | 5.80 | | | | | | |
| MW37 | 17.25-19 | 2.64 | | | | | | |
| MW38 | 12-14 | 2.80 | | | | | | |
| MW39 | 17.75-19 | 2.18 | | | | | | |
| MW40 | 13.25-16 | 3.05 | | | | | | |
| MW41 | 16.5-18 | 3.78 | | | | | Monthly | |
| MW42 | 12-14.5 | 3.65 | | | | | | |
| MW43 | 16-18 | 2.02 | | | | | | |
| MW44 | 12-15 | 3.14 | | | | | | Cam Pump |

The Key to abbreviations is included as Attachment 1, and the field sampling data sheets for monitoring conducted during the period of January through April 2005 are included as Attachment 2.

Hydraulic Gradient

Hydraulic gradients were calculated from hydraulic head measurements in three different water-bearing units (Unit 1, Unit 2, and Unit 3), utilizing the three-point method with wells identified below. Surfer 7.0 software was used to create potentiometric contours. Hydraulic gradients and potentiometric surfaces calculated for Units 1, 2, and 3 are presented as Figure 3, Figure 4, and Figure 5, respectively.

The hydraulic heads calculated for Unit 1 monitoring wells (MW23 through MW25 and MW27 through MW30) were used with Surfer 7.0 software for generation of a potentiometric surface. Using the three-point method and hydraulic head elevations of monitoring wells MW27, MW28,

and MW30, the aquifer exhibited a hydraulic gradient of 6.4 percent in a N79°W direction (Figure 3).

The hydraulic heads calculated for Unit 2 monitoring wells (MW33, MW34, MW36, MW38, MW40, MW42, and MW44) were used with Surfer 7.0 software for generation of a potentiometric surface. Using the three-point method and hydraulic head elevations of monitoring wells MW33, MW38, and MW42, the aquifer exhibited a hydraulic gradient of 3.1 percent in a S87°W direction (Figure 4).

The hydraulic heads calculated for Unit 3 monitoring wells (MW33 through MW35, MW37, MW39, MW41, and MW43) were used with Surfer 7.0 software for generation of a potentiometric surface. Using the three-point method and hydraulic head elevations of monitoring wells MW33, MW37, and MW41, the aquifer exhibited a hydraulic gradient of 3.5 percent in a N85°W direction (Figure 5).

Laboratory Results

Laboratory analytical results from the April 27, 2005, quarterly sampling event for Unit 1, Unit 2, and Unit 3 are included below in Table E, Table F, and Table G, respectively. Current and historical groundwater analytical data are included in Table 1, and copies of the laboratory analytical reports for this reporting period are included as Attachment 3.

| WELL | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) |
|-------------|------------------------|------------------------|-------------------------|---------------------------|---------------------------|--------------------------------|---------------------------|------------------------|----------------------------------|
| MW23 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW24 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW25 | 230 | ND<50 | --- | ND<1.5 | ND<5.0 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW27 | 1,100 | 92 | --- | 250 | 5.7 | 8.2 | 2.5 | ND<20 | --- |
| MW28 | 620 | 97 | --- | 58 | 2.9 | 6.7 | 0.84 | ND<10 | --- |
| MW29 | ND<50 | 210 | --- | 1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW30 | 19,000 | 530 | --- | 4,500 | 180 | 680 | 532 | ND<300 | --- |

Analyte concentrations reported for monitoring wells screened within Unit 1 are consistent within the range of results reported for the previous quarter (Table 1).

| Table F: Laboratory Analytical Results UST Unit 2 (April 27, 2005) | | | | | | | | | |
|--|----------------|----------------|-----------------|-------------------|-------------------|------------------------|-------------------|----------------|--------------------------|
| WELL | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) |
| MW33 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW34 | 4,200 | 290 | --- | 74 | 41 | 110 | 179 | ND<100 | --- |
| MW36 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 5.8 | --- |
| MW38 | 100 | ND<50 | --- | 19 | 0.61 | ND<0.50 | ND<0.50 | 11 | --- |
| MW40 | ND<50 | ND<50 | --- | 0.51 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | --- |
| MW42 | 58 | ND<50 | --- | 1.5 | ND<0.50 | ND<0.50 | ND<1.0 | 5.6 | --- |
| MW44 | 4,500 | 82 | --- | 2,300 | 9.8 | 8.5 | 8.3 | ND<50 | --- |

NOTE: MW-33 and MW-34 are screened in both Unit 2 and Unit 3

Analyte concentrations reported for monitoring wells screened within Unit 2 are consistent within the range of results reported for the previous quarter (Table 1).

| Table G: Laboratory Analytical Results UST Unit 3 (April 27, 2005) | | | | | | | | | |
|--|----------------|----------------|-----------------|-------------------|-------------------|------------------------|-------------------|----------------|--------------------------|
| WELL | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) |
| MW33 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- |
| MW34 | 4,200 | 290 | --- | 74 | 41 | 110 | 179 | ND<100 | --- |
| MW35 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 10 | --- |
| MW37 | ND<50 | ND<50 | --- | 0.82 | ND<0.50 | ND<0.50 | ND<0.50 | 5.2 | --- |
| MW39 | ND<50 | 63 | --- | 0.95 | ND<0.50 | ND<0.50 | ND<0.50 | 14 | --- |
| MW41 | ND<50 | ND<50 | --- | 0.95 | ND<0.50 | ND<0.50 | ND<0.50 | 5.9 | --- |
| MW43 | 670 | 66 | --- | 220 | 0.70 | 1.2 | 1.6 | ND<40 | --- |

NOTE: MW-33 and MW-34 are screened in both Unit 2 and Unit 3

Analyte concentrations reported for monitoring wells screened within Unit 3 are consistent within the range of results reported for the previous quarter (Table 1).

Discussion of Groundwater Results

Analytical results from sampling performed during the period of July 20, 2004 through April 27, 2005, indicate that the sum of benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations, exceeded the achievement of the 50 percent milestone goal for reduction in BTEX concentrations from baseline levels in key Pay-for-Performance (PFP) monitoring wells MW27, MW28, MW30, and MW44. Table H (below) summarizes the baseline concentrations of total petroleum hydrocarbons as gasoline (TPHg), BTEX, and methyl tertiary butyl ether (MTBE) as well as laboratory analytical results from sampling performed in key PFP monitoring wells MW27, MW28, MW30, and MW44, for the period of July 2004 through April 2005.

| TABLE H: PAY-FOR-PERFORMANCE MILESTONE ACHIEVEMENT | | | | | | | | | |
|--|------------|----------------|-------------------|-------------------|------------------------|-------------------|-------------------------|----------------|------------------------|
| Well ID/ DATE | | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | % BTEX Reduction |
| Target | | 500 | 250 | 42 | 29 | 17 | 338 | 13 | |
| MW27 | Baseline | 8600 | 3500 | 26 | 81 | 23.6 | 3631 | NA | |
| MW28 | Baseline | 16000 | 6100 | 35 | 83 | 28.4 | 6246.4 | NA | |
| MW30 | Baseline | 22000 | 7700 | 150 | 900 | 481 | 9231 | NA | |
| MW44 | Baseline | 4800 | 3000 | 10 | 26 | 6.8 | 3042.8 | NA | |
| Sum COC | | | 20300 | 221 | 1090 | 539.8 | 22151 | | |
| MW27 | 7/20/2004 | 2700 | 810 | 17 | 12 | 5.0 | 844 | ND<3.0 | |
| MW28 | 7/20/2004 | 10000 | 4800 | 28 | 31 | 15 | 4874 | ND<30 | |
| MW30 | 7/20/2004 | 31000 | 9400 | 230 | 840 | 437 | 10907 | ND<300 | |
| MW44 | 7/20/2004 | 12000 | 6500 | 22 | 27 | 14.6 | 6563.6 | ND<60 | |
| Sum COC | | | 21510 | 297 | 910 | 472 | 23189 | | -5% |
| MW27 | 8/24/2004 | 3700 | 960 | 17 | 24 | 7.2 | 1008 | ND<30 | |
| MW28 | 8/24/2004 | 15000 | 6100 | 43 | 46 | 21 | 6210 | ND<100 | |
| MW30 | 8/24/2004 | 33000 | 10000 | 190 | 630 | 273 | 11093 | ND<300 | |
| MW44 | 8/24/2004 | 2700 | 2100 | 5.0 | 5.0 | 5.0 | 2115 | ND<70 | |
| Sum COC | | | 19160 | 255 | 705 | 306 | 20426 | | 8% |
| MW27 | 9/23/2004 | 2000 | 280 | 15 | 11 | 6.0 | 312 | ND<40 | |
| MW28 | 9/23/2004 | 9400 | 4700 | 34 | 40 | 18 | 4792 | ND<80 | |
| MW30 | 9/23/2004 | 20000 | 6200 | 150 | 470 | 576 | 7396 | ND<300 | |
| MW44 | 9/23/2004 | 8800 | 4600 | 14 | 32 | 13.1 | 4659.1 | ND<60 | |
| Sum COC | | | 15780 | 213 | 553 | 613 | 17159 | | 24% |
| MW27 | 10/21/2004 | 1100 | 170 | 8.2 | 16 | 6.0 | 200.2 | 10 | |
| MW28 | 10/21/2004 | 130 | 53 | 0.50 | 0.90 | 0.61 | 55.01 | ND<3.0 | |
| MW30 | 10/21/2004 | 31000 | 9100 | 300 | 1400 | 870 | 11670 | ND<300 | |
| MW44 | 10/21/2004 | 3500 | 1600 | 4.7 | 3.7 | 6.8 | 1615.2 | ND<40 | |
| Sum COC | | | 10923 | 313 | 1421 | 883 | 13540 | | 41% |
| MW27 | 11/16/2004 | 1100 | 150 | 14 | 8.7 | 5.1 | 177.8 | ND<25 | |
| MW28 | 11/16/2004 | 980 | 500 | 3.6 | 4.4 | 3.2 | 511.2 | ND<13 | |
| MW30 | 11/16/2004 | 30000 | 9200 | 320 | 2000 | 930 | 12450 | ND<300 | |
| MW44 | 11/16/2004 | 3100 | 1700 | 6.6 | 8.4 | 9.6 | 1724.6 | ND<60 | |
| Sum COC | | | 11550 | 344 | 2022 | 948 | 14864 | | 35% |
| MW27 | 12/14/2004 | 1100 | 170 | 8.2 | 14 | 3.2 | 195.4 | ND<20 | |
| MW28 | 12/14/2004 | 1000 | 350 | 5.1 | 7.0 | 3.8 | 365.9 | ND<20 | |
| MW30 | 12/14/2004 | 26000 | 7300 | 270 | 1300 | 810 | 9680 | ND<300 | |
| MW44 | 12/14/2004 | 3000 | 1400 | 4.7 | 5.6 | 6.5 | 1416.8 | ND<40 | |
| Sum COC | | | 9220 | 288 | 1327 | 824 | 11658 | | 50% |
| MW27 | 1/11/2005 | 1300 | 310 | 7.6 | 9.9 | 6.0 | 333.5 | ND<25 | |
| MW28 | 1/11/2005 | 760 | 150 | 4.9 | 7.6 | 3.3 | 165.8 | ND<20 | |
| MW30 | 1/11/2005 | 25000 | 8100 | 310 | 1200 | 920 | 10530 | ND<300 | |
| MW44 | 1/11/2005 | 4000 | 2200 | 7.1 | 1.6 | 9.0 | 2217.7 | ND<80 | |
| Sum COC | | | 10760 | 330 | 1219 | 938 | 13247 | | 43% |

| TABLE H: PAY-FOR-PERFORMANCE MILESTONE ACHIEVEMENT CONT. | | | | | | | | | |
|---|-----------|------------------------|---------------------------|---------------------------|--------------------------------|---------------------------|----------------------------------|------------------------|---------------------------------|
| Well ID/ DATE | | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | % BTEX Reduction |
| MW27 | 2/15/2005 | 990 | 60 | 10 | 7.4 | 5.0 | 82.4 | ND<20 | |
| MW28 | 2/15/2005 | 640 | 94 | 3.3 | 6.2 | 2.4 | 105.9 | ND<15 | |
| MW30 | 2/15/2005 | 22000 | 6100 | 200 | 890 | 670 | 7860 | ND<300 | |
| MW44 | 2/15/2005 | 2900 | 1400 | 4.8 | 2.3 | 6.0 | 1413.1 | ND<50 | |
| Sum COC | | | 7654 | 218 | 906 | 683 | 9461 | | 61% |
| MW27 | 3/30/2005 | 1300 | 300 | 7.9 | 6.8 | 3.5 | 318.2 | ND<30 | |
| MW28 | 3/30/2005 | 780 | 100 | 4.2 | 8.5 | 1.7 | 114.4 | ND<20 | |
| MW30 | 3/30/2005 | 18000 | 5600 | 180 | 800 | 590 | 7170 | ND<300 | |
| MW44 | 3/30/2005 | 3600 | 1800 | 6.7 | 4.3 | 7.1 | 1818.1 | ND<70 | |
| Sum COC | | | 7800 | 199 | 820 | 602 | 9421 | | 61% |
| MW27 | 4/27/2005 | 1100 | 250 | 5.7 | 8.2 | 2.5 | 266.4 | ND<20 | |
| MW28 | 4/27/2005 | 620 | 58 | 2.9 | 6.7 | 0.84 | 68.44 | ND<10 | |
| MW30 | 4/27/2005 | 19000 | 4500 | 180 | 680 | 532 | 5892 | ND<300 | |
| MW44 | 4/27/2005 | 4500 | 2300 | 9.8 | 8.5 | 8.3 | 2326.6 | ND<50 | |
| Sum COC | | | 7108 | 198 | 703 | 543.6 | 8553.4 | | 65% |

Notes:

BTEX results reported as non-detectable (ND) were included at the value for the minimum detection limit.

The 25% through 75% milestones are reached based on the sum of BTEX concentrations for all key wells. For the 100% milestone, each individual well must meet the PARG.

In-Situ Chemical Oxidation (ISCO) Remediation System

As of May 4, 2005, approximately 8,183 kilowatts per hour (Kwh) of electricity has been used to operate the master panel of the remediation system. The master panel of the remediation system was turned off from November 30, 2004 through April 15, 2005. Field forms for system checks occurring between February 2, 2005 and May 4, 2005, are included as Attachment 4. LACO continues with the bi-monthly to weekly system checks and quarterly sampling of the wells.

Groundwater Intrinsic

Monitoring wells MW1A, MW23, MW24, MW25, MW27 through MW30, and MW33 through MW44 were monitored for field intrinsic bioremediation indicators dissolved oxygen (DO) and oxidation-reduction potential (ORP) (Table 2). A concentration of DO greater than 2.0 mg/L and an ORP voltage of 50 mV or greater is an indication of aerobic conditions, while values less than these are an indication of anaerobic conditions. For the period of January through April 2005, water quality parameters monitored in the field indicate that anaerobic conditions exist at all monitoring wells. Anaerobic conditions indicate that DO is being consumed by organic material at the site.

Future Work

- Monthly monitoring of key and perimeter PFP monitoring wells will continue.

List of Figures, Tables, and Attachments

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Hydraulic Gradient Unit 1

Figure 4: Hydraulic Gradient Unit 2

Figure 4: Hydraulic Gradient Unit 3

Table 1: Well Data and Groundwater Analytical Results

Table 2: Field Intrinsic Indicator Results (DO and ORP)

Table 3: Sum of COCs/PFP Milestone Achievement

Attachment 1: Key to Abbreviations

Attachment 2: Groundwater Sampling: Field Data Sheets

Attachment 3: Laboratory Analytical Reports

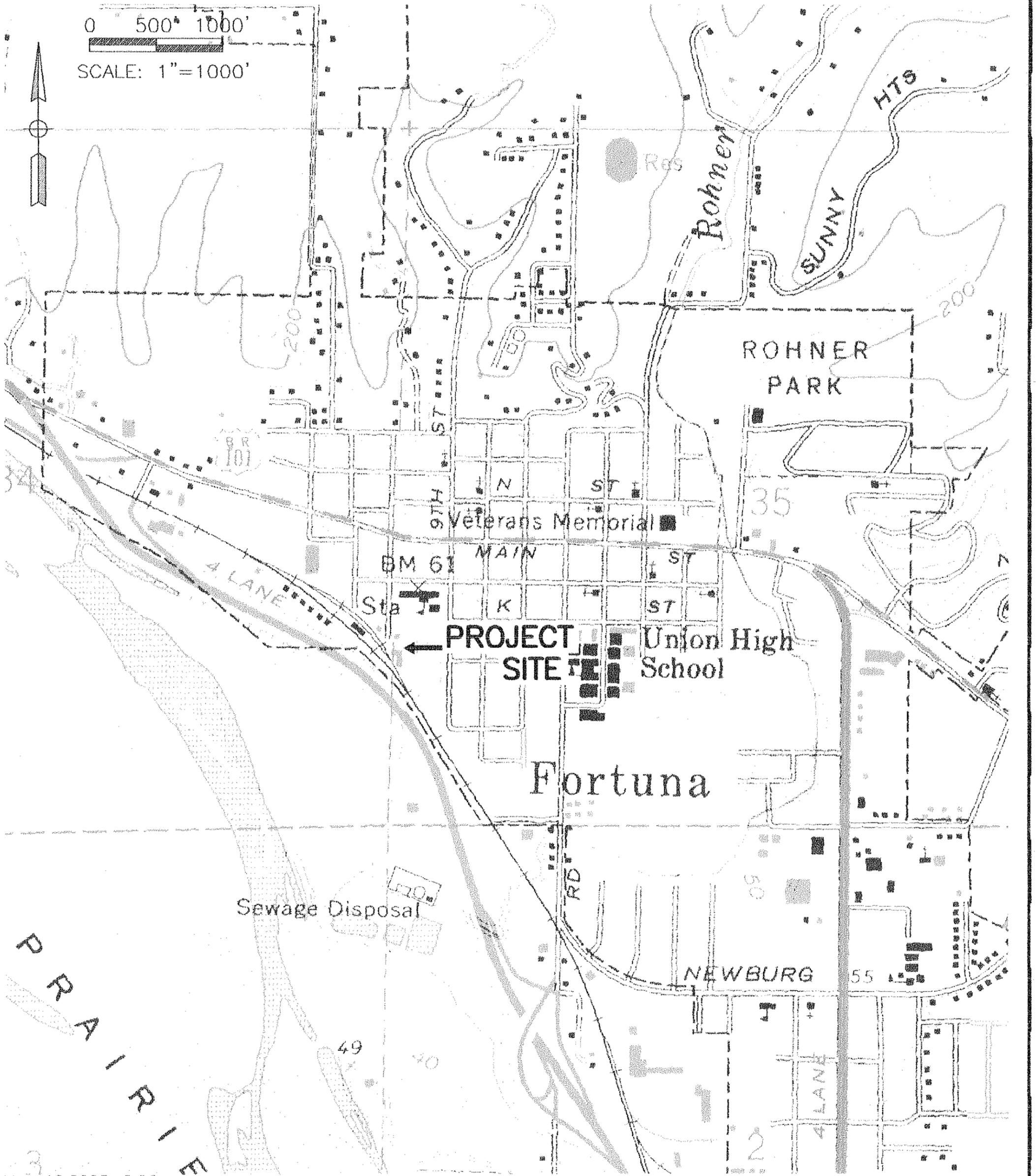
Attachment 4: ISCO Operation and Maintenance: Field Data Sheets

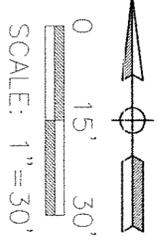
P:\4000\4629 HPI Bulk Plant\submittals\GW Mon Reports\2005\4629.03_1Q05_GMR\4629.03_UST 1Q05GMR.doc



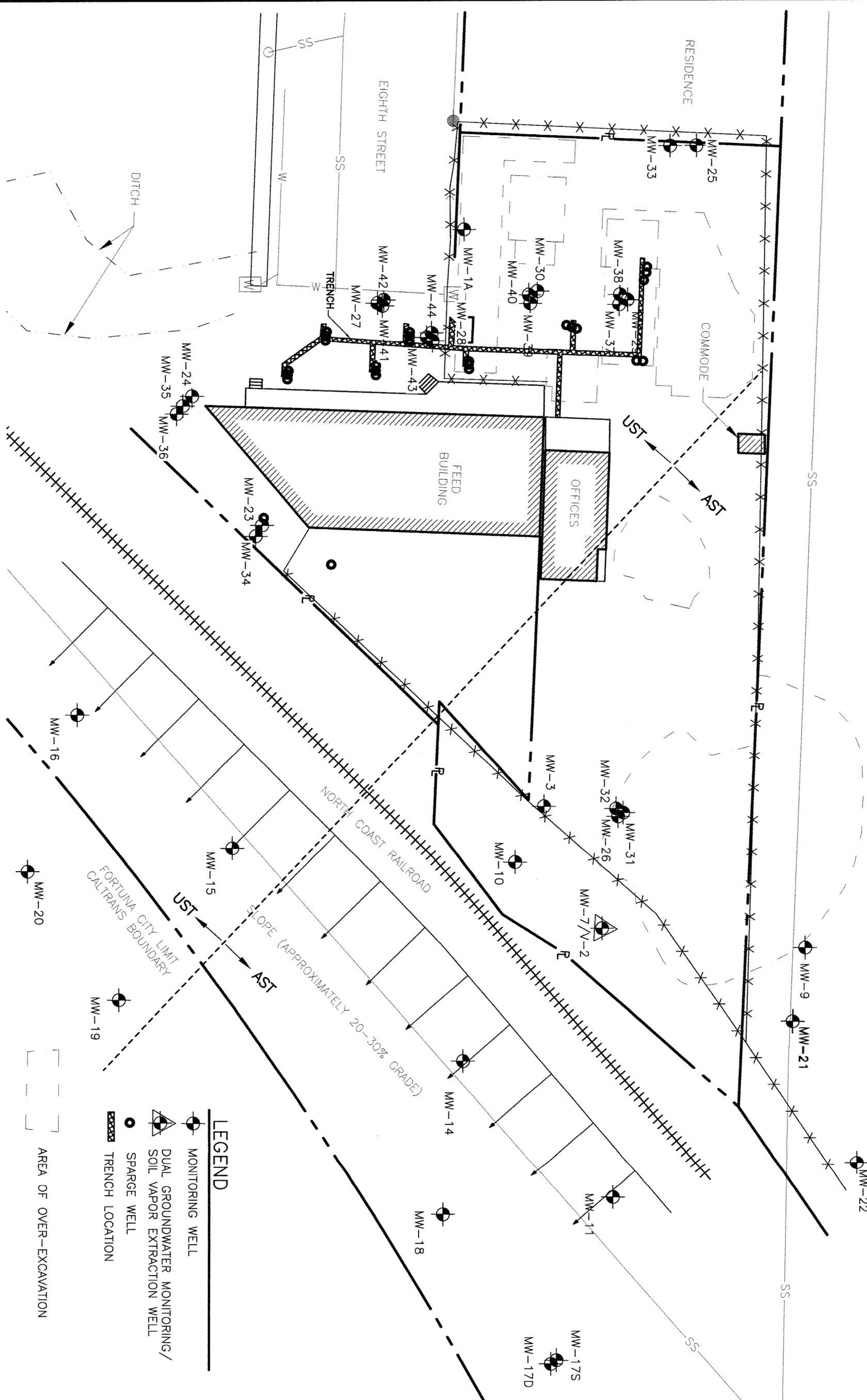
LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

| | | | | | |
|----------|--------------------------------|-------|--------------------|---------|---------|
| PROJECT | GROUNDWATER MONITORING REPORT | BY | RJM | FIGURE | 1 |
| CLIENT | HUMBOLDT PETROLEUM INC | DATE | 5/16/05 | | |
| LOCATION | FORMER BULK PLANT, FORTUNA, CA | CHECK | <i>[Signature]</i> | JOB NO. | 4629.03 |
| | LOCATION MAP | SCALE | 1"=1000' | | |





FORTUNA UNION
 ELEMENTARY SCHOOL



- LEGEND**
- MONITORING WELL
 - DUAL GROUNDWATER MONITORING/
SOIL VAPOR EXTRACTION WELL
 - SPARGE WELL
 - TRENCH LOCATION
 - AREA OF OVER-EXCAVATION

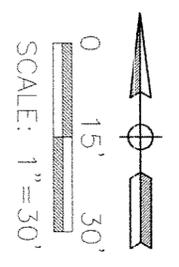
**GROUNDWATER MONITORING
 REPORT - UST AREA
 SITE MAP**

**HUMBOLDT PETROLEUM, INC
 FORMER BULK PLANT, FORTUNA, CA**

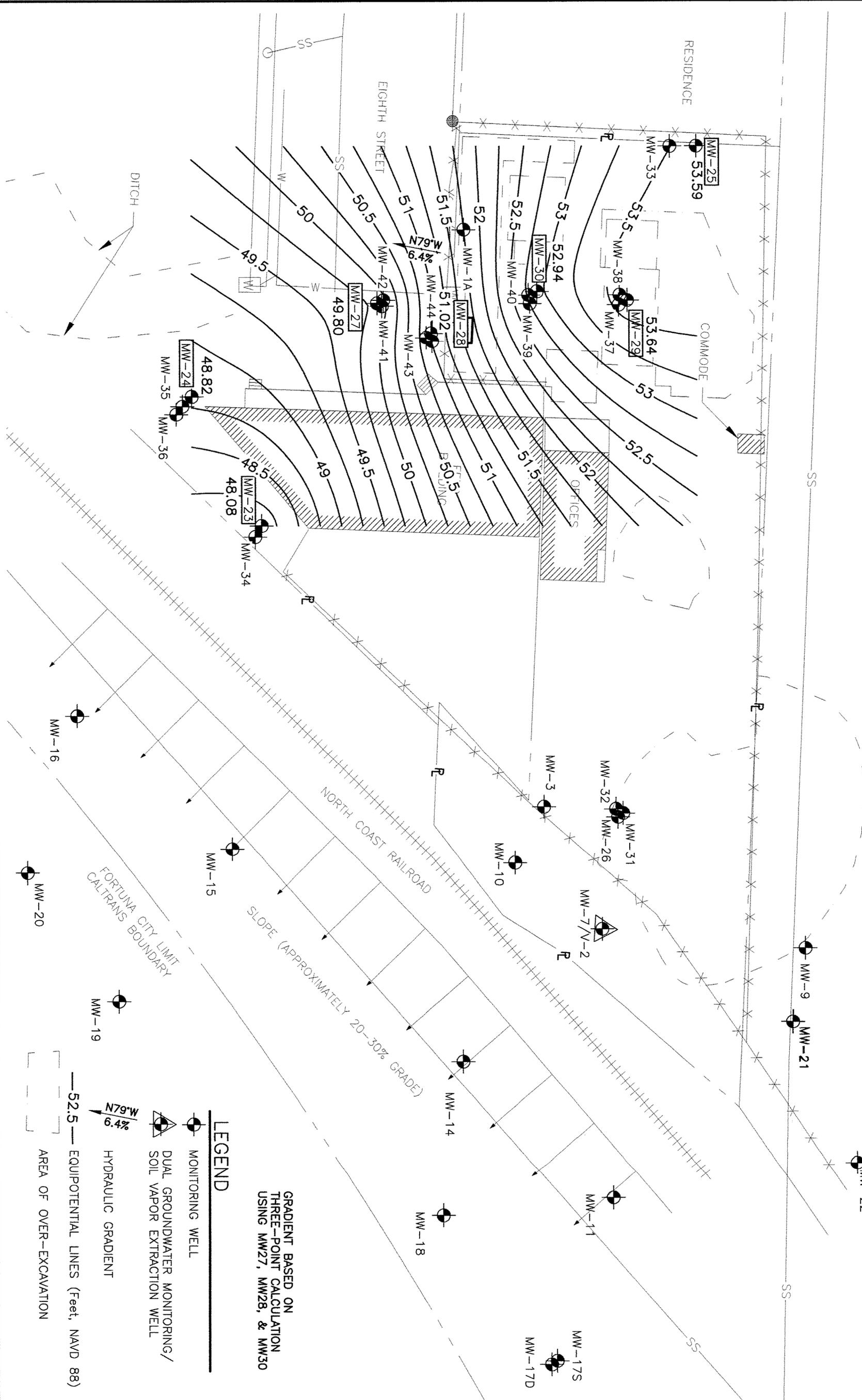
| | |
|---------|---------|
| SCALE | 1"=30' |
| DRAWN | RJM |
| CHECK | BRH |
| APPVD | |
| DATE | 5/12/05 |
| JOB NO. | 4629.03 |
| FIGURE | 2 |

| NO. | REVISION | BY | CHK | DATE |
|-----|----------|----|-----|------|
| | | | | |
| | | | | |
| | | | | |

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FORTUNA UNION
 ELEMENTARY SCHOOL



LEGEND

- MONITORING WELL
- DUAL GROUNDWATER MONITORING/
SOIL VAPOR EXTRACTION WELL
- HYDRAULIC GRADIENT
- 52.5 — EQUIPOTENTIAL LINES (Feet, NAVD 88)
- AREA OF OVER-EXCAVATION

GRADIENT BASED ON
 THREE-POINT CALCULATION
 USING MW27, MW28, & MW30

**GROUNDWATER MONITORING
 REPORT - UST AREA**
 HYDRAULIC GRADIENT MAP IN UNIT 1 (4/27/05)

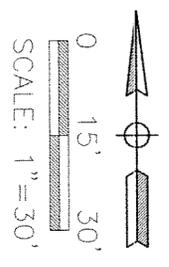
HUMBOLDT PETROLEUM, INC
 FORMER BULK PLANT, FORTUNA, CA

| NO. | REVISION | BY | CHK | DATE |
|-----|----------|----|-----|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

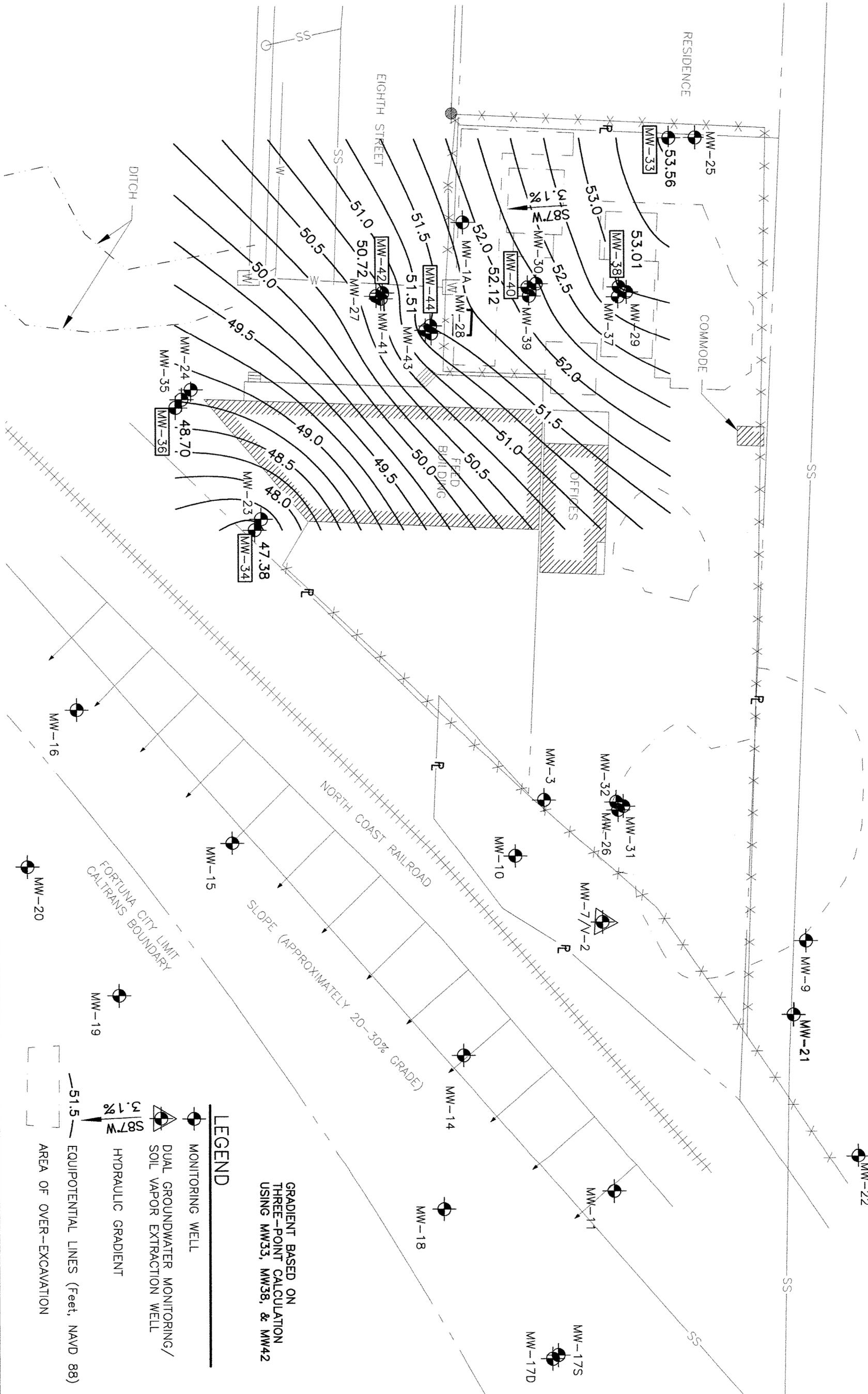
LACO ASSOCIATES
 CONSULTING ENGINEERS

21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

SCALE 1"=30'
 DRAWN RLM
 CHECK TBB
 APPVD 5/16/05
 DATE 5/16/05
 JOB NO. 4629.03
 FIGURE 3



FORTUNA UNION
 ELEMENTARY SCHOOL



LEGEND

MONITORING WELL

DUAL GROUNDWATER MONITORING/
 SOIL VAPOR EXTRACTION WELL

HYDRAULIC GRADIENT

EQUIPOTENTIAL LINES (Feet, NAVD 88)

AREA OF OVER-EXCAVATION

GRADIENT BASED ON
 THREE-POINT CALCULATION
 USING MW33, MW38, & MW42

**GROUNDWATER MONITORING
 REPORT - UST AREA**

HYDRAULIC GRADIENT MAP IN UNIT 2 (4/27/05)

HUMBOLDT PETROLEUM, INC
 FORMER BULK PLANT, FORTUNA, CA

| NO. | REVISION | BY | CHK | DATE |
|-----|----------|----|-----|------|
| | | | | |
| | | | | |
| | | | | |

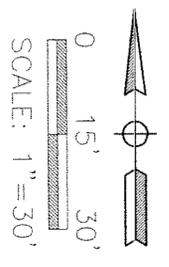
LACO ASSOCIATES



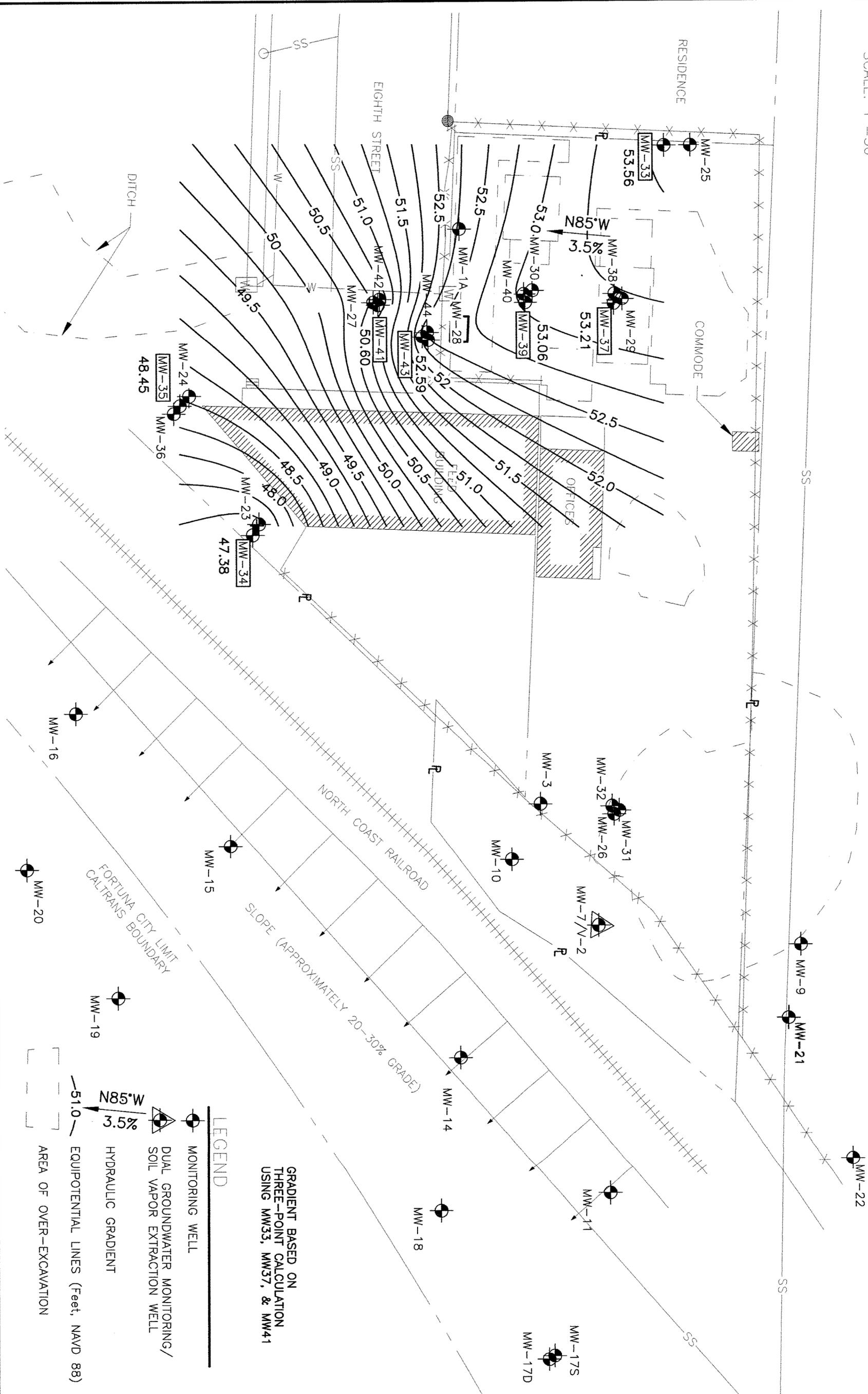
CONSULTING ENGINEERS

21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

| | |
|---------|---------|
| SCALE | 1"=30' |
| DRAWN | RLM |
| CHECK | TBB |
| APPVD | 5/16/05 |
| DATE | 5/16/05 |
| JOB NO. | 4629.03 |
| FIGURE | 4 |



FORTUNA UNION
 ELEMENTARY SCHOOL



LEGEND

- MONITORING WELL
- DUAL GROUNDWATER MONITORING/
SOIL VAPOR EXTRACTION WELL
- HYDRAULIC GRADIENT
- EQUIPOTENTIAL LINES (Feet, NAVD 88)
- AREA OF OVER-EXCAVATION

GRADIENT BASED ON
 THREE-POINT CALCULATION
 USING MW35, MW37, & MW41

**GROUNDWATER MONITORING
 REPORT - UST AREA
 HYDRAULIC GRADIENT MAP IN UNIT 3 (4/27/05)**

**HUMBOLDT PETROLEUM, INC
 FORMER BULK PLANT, FORTUNA, CA**

| | |
|---------|---------|
| SCALE | 1"=30' |
| DRAWN | RJM |
| CHECK | TBB |
| APPVD | |
| DATE | 5/13/05 |
| JOB NO. | 4629.03 |
| FIGURE | 5 |

| NO. | REVISION | BY | CHK | DATE |
|-----|----------|----|-----|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

LACO ASSOCIATES
 CONSULTING ENGINEERS
 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPPir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|---------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-1 | 50.87 | | | | | | | | | | | | | |
| 10/7/1993 | 46.27 | 46.27 | 4.60 | 4,500 | 560 ^{6,7} | ND <500 | | 2,000 | 110 | ND | 195 | | | |
| 11/11/1993 | 43.55 | 43.55 | 7.32 | | | | | | | | | | | |
| 12/29/1993 | 48.20 | 48.20 | 2.67 | | | | | | | | | | | |
| 1/24/1994 | 49.75 | 49.75 | 1.12 | 16,000 | 1,300 | ND <500 | | 5,300 | 270 | 120 | 490 | | | |
| 2/24/1994 | 50.19 | 50.19 | 0.68 | | | | | | | | | | | |
| 3/28/1994 | 49.34 | 49.34 | 1.53 | | | | | | | | | | | |
| 4/25/1994 | 49.36 | 49.36 | 1.51 | 14,000 | 5,500 | | ND | 5,500 | 64 | ND | 150 | | | |
| 5/12/1994 | 48.84 | 48.84 | 2.03 | | | | | | | | | | | |
| 6/3/1994 | 48.13 | 48.13 | 2.74 | | | | | | | | | | | |
| 7/19/1994 | 45.78 | 45.78 | 5.09 | | | | | | | | | | | |
| 9/21/1994 | 43.07 | 43.07 | 7.80 | | | | | | | | | | | |
| 10/25/1994 | 42.05 | 42.05 | 8.82 | | | | | | | | | | | |
| 11/16/1994 | 47.71 | 47.71 | 3.16 | | | | | | | | | | | |
| 12/8/1994 | 48.63 | 48.63 | 2.24 | | | | | | | | | | | |
| 1/9/1995 | 50.07 | 50.07 | 0.80 | 15,000 | 390,000 | | 310 | 3,100 | 180 | 330 | 800 | | | 5.0 |
| 2/7/1995 | 50.59 | 50.59 | 0.28 | | | | | | | | | | | |
| 3/7/1995 | 49.75 | 49.75 | 1.12 | | | | | | | | | | | |
| 4/5/1995 | 49.48 | 49.48 | 1.39 | | | | | | | | | | | |
| 4/5/95 (D) | | | | | | | | | | | | | | |
| 6/23/1995 | 48.41 | 48.41 | 2.46 | 17,000 | 23,000 | | 8.1 | 6,800 | 510 | 190 | 610 | | | 3.0 |
| 7/5/1995 | 47.39 | 47.39 | 3.48 | | | | | | | | | | | |
| 8/3/1995 | 46.55 | 46.55 | 4.32 | | | | | | | | | | | |
| 9/6/1995 | 46.06 | 46.06 | 4.81 | | | | | | | | | | | |
| 10/9/1995 | 46.36 | 46.36 | 4.51 | 5,800 | 8,100 | | ND | 2,100 | 48 | 100 | 150 | | | 1.5 |
| 11/16/1995 | 46.89 | 46.89 | 3.98 | | | | | | | | | | | |
| 1/16/1996 | 49.90 | 49.90 | 0.97 | | | | | | | | | | | |
| 4/23/1996 (D) | 50.17 | 50.17 | 0.70 | 20,000 | 25,000 | | 23 | 7,100 | 400 | 380 | 940 | | | 2.0 |
| 7/10/1996 | 48.17 | 48.17 | 2.70 | 17,000 | 23,000 | | 11 | 6,600 | 280 | 300 | 730 | | | 3.0 |
| 10/22/1996 | 46.59 | 46.59 | 4.28 | 19,000 | 17,000 | | 3.1 | 6,100 | 250 | 290 | 590 | | | |
| 1/21/1997 | 50.17 | 50.17 | 0.70 | 11,000 | 13,000 | | ND | 4,700 | 160 | 290 | 510 | | | 3.0 |
| 4/15/1997 | 49.17 | 49.17 | 1.70 | 12,000 | 8,800 | | 1.8 | 3,800 | 110 | 160 | 280 | | | 3.0 |
| 5/20/1997 | 48.82 | 48.82 | 2.05 | 15,000 | 9,100 | | 4.7 | 4,800 | 180 | 220 | 550 | ND | | 4.0 |
| 7/29/1997 | 46.92 | 46.92 | 3.95 | 11,000 | 5,400 | | 7.3 | 3,900 | 130 | 210 | 470 | ND | | 3.0 |
| 10/15/1997 | 47.12 | 47.12 | 3.75 | 10,000 | 5,300 | | | 3,700 | 140 | 210 | 490 | 260 | | |
| 1/20/1998 | 50.67 | 50.67 | 0.20 | 11,600 | 21,000 | | | 3,300 | 68 | 150 | 220 | ND | | 3.0 |
| 1/20/98 (D) | 50.87 | 50.87 | 0.80 | 13,000 | 11,000 ⁸ | | 1.8 | 5,500 | 140 | 120 | 380 | 250 | | 4.0 |
| 4/15/1998 | 50.07 | 50.07 | 0.80 | 2,600 | 5,300 ⁶ | | ND | 78 | 24 | 30 | 880 | 78 | | 3.0 |
| 7/28/1998 | 46.67 | 46.67 | 4.20 | 2,700 | 1,900 | | | 780 | ND | ND | 69 | ND | | |
| 1/26/2000 | 50.04 | 50.04 | 0.83 | 12,000 | 8,000 | | 50.0 | 3,400 | 93 | 210 | 380 | ND | | 3.8 |
| | | | | 7,300 | 5,500 ⁶ | | 5.7 | 1,700 | 53 | 120 | 190 | ND <2.5 | | 2.6 |
| | | | | 14,000 | 10,000 | 1,900 | | 3,300 | 100 | 70 | 252 | | | |
| | | | | | 6,300 | 700 | | | | | | | | |
| | | | | | <i>w/silica</i> | <i>w/silica</i> | | | | | | | | |
| | | | | | <i>gel</i> | <i>gel</i> | | | | | | | | |
| | | | | | <i>cleanup</i> | <i>cleanup</i> | | | | | | | | |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|----------------|--------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-1, Continued | | | | | | | | | | | | | | |
| 5/3/2000 | 49.60 | 49.60 | 1.27 | 3,700 | 3,200 | 190 | --- | 1,100 | 62 | 110 | 169 | ND<100 | --- | --- |
| 8/3/2000 | 45.62 | 45.62 | 5.25 | 11,000 | 7,600 | 340 | --- | 2,700 | 79 | 72 | 158 | ND<150 | --- | 1.7 |
| 10/11/2000 | 44.39 | 44.39 | 6.48 | 9,900 | 6,200 | 360 | --- | 3,400 | 61 | 69 | 178 | ND<10 | --- | --- |
| 11/14/2000 | | well destroyed | | | | | | | | | | | | |
| MW-1A | | | | | | | | | | | | | | |
| | | 51.08 | | | | | | | | | | | | |
| 2/3/2001 | well reinstalled | | | | | | | | | | | | | |
| 2/14/2001 | 46.54 | 46.54 | 4.33 | 500 | 210 | ND<170 | --- | 77 | 3.1 | 1.3 | 5.0 | ND<1.0 | ND<2.5-50 | --- |
| 4/12/2001 | 49.30 | 49.30 | 1.78 | 900 | 200 w/ sgc | ND<170 | --- | 110 | 4.3 | 3.9 | 5.1 | ND<1.0 | ND<1.50 | 1 |
| 7/10/2001 | 46.19 | 46.19 | 4.89 | 1,400 | 680 | ND<170 | --- | 41 | 4.0 | 5.1 | 3.5 | ND<1.0 | ND<1.20 | 0.5 |
| 11/11/2001 | 45.78 | 45.78 | 5.38 | 200 | ND<50 | ND<170 | --- | 15 | 0.71 | 0.64 | 1.2 | ND<1.0 | ND<1.20 | --- |
| 12/10/2001 | 50.56 | 50.56 | 0.52 | 88 | 53 | ND<170 | --- | 8.7 | ND<0.50 | ND<0.50 | 0.73 | ND<1.0 | COD - 63,000 | 0.4 |
| 3/28/2002 | 49.63 | 49.63 | 1.45 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 1.0 |
| 6/27/2002 | 47.26 | 47.26 | 3.82 | 65 | ND<50 | ND<170 | --- | 1.8 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.4 |
| 9/11/2002 | 44.17 | 44.17 | 6.91 | 190 | ND<50 | ND<170 | --- | 17 | ND<0.50 | 0.52 | 0.68 | ND<1.0 | ND<1.20 | --- |
| 1/31/2003 | 48.26 | 48.26 | 2.82 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 4.4 |
| 3/26/2003 | 50.86 | 50.86 | 0.22 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 2.84 |
| 6/19/2003 | 48.00 | 48.00 | 3.08 | ND<50 | ND<50 | ND<170 | --- | 11 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 0.94 |
| 9/24/2003 | 44.47 | 44.47 | 6.61 | 150 | ND<50 | ND<170 | --- | 0.71 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 0.00 |
| 12/18/2003 | 50.28 | 50.28 | 0.80 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 0.62 |
| 3/23/2004 | 49.24 | 49.24 | 1.84 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 0.20 |
| 6/29/2004 | 46.96 | 46.96 | 4.12 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.20 | 0.56 |
| 9/23/2004 | 43.23 | 43.23 | 7.85 | 310 | ND<50 | --- | --- | 28 | ND<2.0 | ND<0.50 | 0.51 | ND<15 | --- | 0.27 |
| 12/14/2004 | 49.58 | 49.58 | 1.50 | 250 | ND<50 | --- | --- | 12 | ND<1.0 | ND<0.50 | ND<0.50 | ND<13 | Iron = 690 | --- |
| 4/27/2005 | 49.41 | 49.41 | 1.67 | 170 | ND<50 | --- | --- | 3.2 | ND<1.5 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.38 |
| MW-2 | | | | | | | | | | | | | | |
| | | 51.86 | | | | | | | | | | | | |
| 10/7/1993 | 42.20 | 42.20 | 9.66 | 11,000 | 870 ^{6,7} | ND<500 | --- | 4,200 | 55 | ND<10 | 19 | --- | Tannin/Lignin = 20 | --- |
| 11/11/1993 | 42.58 | 42.58 | 9.28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/29/1993 | 46.65 | 46.65 | 5.21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/24/1994 | 51.65 | 51.65 | 0.21 | 12,000 | 1,500 | ND<500 | --- | 3,800 | 68 | 82 | 243 | --- | --- | --- |
| 2/24/1994 | 51.31 | 51.31 | 0.55 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/28/1994 | 50.03 | 50.03 | 1.83 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/25/1994 | 50.50 | 50.50 | 1.36 | 22,000 | 6,500 | --- | ND | 6,800 | 99 | 210 | 420 | --- | Tannin/Lignin = 74 | --- |
| 5/12/1994 | 47.82 | 47.82 | 4.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6/3/1994 | 46.78 | 46.78 | 5.08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/19/1994 | 44.68 | 44.68 | 7.18 | 16,000 | 8,600 | --- | 3,500 | 4,400 | 120 | 160 | 300 | --- | Tannin/Lignin: ND | 3.2 |
| 9/21/1994 | 42.26 | 42.26 | 9.60 | 17,000 | 3,400 | --- | ND | 6,400 | ND | 120 | 190 | --- | Tannin/Lignin = 83 | 2.0 |
| 10/25/1994 | 40.99 | 40.99 | 10.87 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11/16/1994 | 45.85 | 45.85 | 6.01 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/8/1994 | 48.17 | 48.17 | 3.69 | 13,000 | 7,500 | --- | ND | 3,200 | 75 | 160 | 890 | --- | Tannin/Lignin = 55 | 3.0 |
| 1/9/1995 | 51.81 | 51.81 | 0.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2/7/1995 | 50.77 | 50.77 | 1.09 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/7/1995 | 50.35 | 50.35 | 1.51 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/5/1995 | 49.96 | 49.96 | 1.90 | 20,000 | 8,800 | --- | ND | 5,900 | 150 | 450 | 2,000 | --- | Tannin/Lignin = 77 | 5.0 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. JTHU1116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|-----------------------|--|--|-----------------------------|----------------|--------------------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-2 continued | | | | | | | | | | | | | | |
| 6/23/1995 | 46.93 | | 4.93 | 19,000 | 11,000 | | ND | 6,400 | 140 | 330 | 1,100 | | Tannin/Lignin = 120 | 3.5 |
| 7/5/1995 | 45.91 | | 5.95 | | | | | | | | | | | |
| 8/3/1995 | 44.79 | | 7.07 | | | | | | | | | | | |
| 9/6/1995 | 43.83 | | 8.03 | | | | | | | | | | | |
| 10/9/1995 | 42.99 | | 8.87 | 14,000 | 8,800 | | ND | 7,000 | 140 | 230 | 470 | | Tannin/Lignin = 83 | 2.0 |
| 11/16/1995 | 42.41 | | 9.45 | | | | | | | | | | | |
| 1/16/1996 | 51.59 | | 0.27 | 10,000 | 11,000 | | 1.5 | 3,100 | 74 | 110 | 490 | | Tannin/Lignin = 57 | 3.0 |
| 4/23/1996 | 50.59 | | 1.27 | 13,000 | 14,000 | | 2.3 | 3,700 | 85 | 190 | 920 | | Tannin/Lignin = 74 | 4.0 |
| 7/10/1996 | 46.26 | | 5.60 | 15,000 | 13,000 | | ND | 4,600 | 160 | 220 | 760 | | Tannin/Lignin = 86 | 4.0 |
| 10/22/1996 | 43.31 | | 8.55 | 7,100 | 8,500 | | 2.8 | 3,300 | 77 | 96 | 180 | | Tannin/Lignin = 220 | 3.0 |
| 1/21/1997 | 50.41 | | 1.45 | 12,000 | 9,700 | | 4.6 | 2,500 | 60 | 110 | 660 | | Tannin/Lignin = 43 | 3.0 |
| 1/21/97 (D) | | duplicate sample | | 11,000 | 10,000 | | 3.6 | 2,600 | 58 | 100 | 650 | | Tannin/Lignin = 47 | 3.0 |
| 4/15/1997 | 47.31 | | 4.55 | 9,500 | 7,300 | | | | | | | | | |
| 5/20/1997 | 46.91 | | 4.95 | | | | | | | | | | | |
| 7/29/1997 | 44.76 | | 7.10 | 14,000 | 8,600 | | | 5,100 | 110 | 140 | 280 | | | 3.0 |
| 7/29/97 (D) | | duplicate sample | | 14,000 | 8,400 | | | 4,800 | 120 | 130 | 250 | | | 3.0 |
| 10/15/1997 | 44.86 | | 7.00 | 19,000 | 8,700 * | | 1.3 | 4,500 | 130 | 170 | 170 | | | 3.0 |
| 10/15/97 (D) | | duplicate sample | | 16,000 | 6,300 * | | | 4,200 | 120 | 100 | 150 | | | |
| 1/20/1998 | 51.61 | | 0.25 | 7,900 | 8,100 | | ND | 1,700 | 40 | 72 | 200 | | | 2.0 |
| 4/15/1998 | 51.03 | | 0.83 | 9,900 | 8,500 | | 65 | 2,300 | 50 | 100 | 280 | | Tannin/Lignin = 42 | 2.2 |
| 7/28/1998 | 45.33 | | 6.53 | 9,700 | 5,300 | | ND < 5.0 | 2,400 | 81 | 140 | 400 | | Tannin/Lignin = 34 | 2.4 |
| 7/28/98 (D) | | duplicate sample | | 9,300 | 4,500 | | | 2,400 | 80 | 140 | 390 | | | |
| 1/26/2000 | 50.83 | | 1.03 | 7,900 | 2,400 | | | 3,300 | 70 | 93 | 84 | | | |
| 5/3/2000 | 48.64 | | 3.22 | 5,800 | 55 | | | 1,600 | ND < 80 | 120 | 214 | | | |
| 8/3/2000 | 44.74 | | 7.12 | 10,000 | 92 | | | 3,200 | 69 | 90 | 108 | | | 0.8 |
| 10/11/2000 | 42.37 | | 9.49 | 11,000 | ND < 50 | | | 4,900 | 97 | 160 | 76 | | | 0.6 |
| 1/4/2001 | 46.09 | | 5.77 | 3,000 | 280 | | | 670 | 20 | 37 | 34.6 | | | |
| 4/12/2001 | 49.59 | | 2.27 | 1,100 | 65 w/ silica gel cleanup | | | 230 | 2.4 | 14 | 7.7 | | | 0.8 |
| 7/10/2001 | 44.86 | | 7.00 | 5,600 | 3,100 | | | 1,700 | 23 | 39 | 29 | | ND < 10-200 | 0.3 |
| 11/1/2001 | 40.81 | | 11.05 | 10,000 | 360 | | | 3,900 | 53 | 41 | 37.3 | | ND < 5-100 | |
| 12/10/2001 | 47.36 | | 4.50 | 10,000 | 140 | | | 4,600 | 77 | 53 | 41.5 | | ND < 5-100 | |
| 3/28/2002 | 48.49 | | 3.37 | 6,200 | 270 | | | 1,900 | 34 | 34 | 37 | | ND < 50-1000 | 1.0 |
| 6/27/2002 | 44.83 | | 7.03 | 5,800 | 310 | | | 3,800 | 56 | 34 | ND < 2.5 | | ND < 50-1000 | 0.5 |
| 9/11/2002 | 45.78 | | 6.08 | 7,700 | 160 | | | 2,600 | 50 | 39 | 25 | | ND < 50-1000 | |
| 12/4/2002 | | well destroyed | | | | | | | | | | | | |
| MW-3 | | | | | | | | | | | | | | |
| 10/7/1993 | 50.87 | | 10.59 | 340 | 230 * | | | 140 | 3.0 | 1.3 | 2.8 | | | |
| 11/11/1993 | 39.48 | | 11.39 | | | | | | | | | | | |
| 12/29/1993 | 43.91 | | 6.96 | | | | | | | | | | | |
| 1/24/1994 | 49.57 | | 1.30 | 690 | 170 | | | 150 | 5.4 | 2.6 | 4.2 | | | |
| 2/24/1994 | 47.11 | | 3.76 | | | | | | | | | | | |
| 3/28/1994 | 45.63 | | 5.24 | | | | | | | | | | | |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. JTHU1116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|--------------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-3 continued | | | | | | | | | | | | | | |
| 4/25/1994 | 46.27 | 46.27 | 4.60 | 860 | 1,100 | --- | ND | 190 | ND | ND | ND | --- | --- | --- |
| 5/12/1994 | 44.45 | 44.45 | 6.42 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6/3/1994 | 43.85 | 43.85 | 7.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/19/1994 | 41.95 | 41.95 | 8.92 | 980 | 2,200 | --- | ND | 240 | 10 | 4.7 | 11 | --- | --- | 4.0 |
| 9/21/1994 | 39.38 | 39.38 | 11.49 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/25/1994 | 38.40 | 38.40 | 12.47 | 530 | 1,200 | --- | ND | 170 | ND | ND | ND | --- | --- | 3.0 |
| 11/16/1994 | 39.47 | 39.47 | 11.40 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/8/1994 | 44.48 | 44.48 | 6.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/9/1995 | 50.83 | 50.83 | 0.04 | 510 | 1,100 | --- | ND | 110 | 2.0 | 1.6 | 2.3 | --- | --- | 5.0 |
| 2/7/1995 | 46.51 | 46.51 | 4.36 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/7/1995 | 46.11 | 46.11 | 4.76 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/5/1995 | 45.76 | 45.76 | 5.11 | 480 | 1,500 | --- | ND | 130 | 3.1 | ND | 2.7 | --- | --- | 3.0 |
| 6/23/1995 | 43.92 | 43.92 | 6.95 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/5/1995 | 43.38 | 43.38 | 7.49 | 560 | 1,700 | --- | ND | 130 | 4.6 | 1.6 | 2.1 | --- | --- | 3.0 |
| 8/3/1995 | 42.40 | 42.40 | 8.47 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/6/1995 | 41.19 | 41.19 | 9.68 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.5 |
| 10/9/1995 | 40.46 | 40.46 | 10.41 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11/16/1995 | 39.82 | 39.82 | 11.05 | 570 | 2,300 | --- | ND | 210 | 3.8 | ND | 4.6 | --- | --- | --- |
| 1/16/1996 | 48.44 | 48.44 | 2.43 | 680 | 2,200 | --- | 1.4 | 200 | 3.8 | ND | 3.1 | --- | --- | 4.0 |
| 4/23/1996 | 46.17 | 46.17 | 4.70 | 570 | 2,300 | --- | ND | 160 | 2.2 | ND | 2.2 | --- | --- | 4.0 |
| 7/10/1996 | 44.12 | 44.12 | 6.75 | 680 | 2,100 | --- | ND | 240 | 5.4 | ND | 5.9 | --- | --- | 4.0 |
| 10/22/1996 | 42.17 | 42.17 | 8.70 | 550 | 2,600 | --- | ND | 210 | 2.2 | ND | 3.9 | 27 | --- | 4.0 |
| 1/21/1997 | 45.47 | 45.47 | 5.40 | 370 | 1,400 | --- | ND | 87 | 1.2 | ND | 1.1 | 7.7 | --- | 3.0 |
| 4/15/1997 | 44.12 | 44.12 | 6.75 | 820 | 1,800 | --- | ND | 170 | 3.3 | 2.5 | 4.2 | 32 | --- | 4.0 |
| 7/29/1997 | 43.27 | 43.27 | 7.60 | 790 | 2,300 | --- | --- | 230 | ND | ND | ND | ND | --- | 4.0 |
| 10/15/1997 | 43.62 | 43.62 | 7.25 | 210 | 2,100 * | --- | ND < 1.2 | 49 | 0.60 | ND < 0.50 | 0.57 | 4.9 | --- | 3.0 |
| 1/20/1998 | 49.59 | 49.59 | 1.28 | 370 | 1,100 | --- | ND | 67 | ND | ND | 0.80 | 15 | --- | 3.0 |
| 4/15/1998 | 46.37 | 46.37 | 4.50 | 1,600 | 2,600 | --- | 17 | 310 | ND | ND | ND | ND | --- | 2.6 |
| 7/28/1998 | 42.72 | 42.72 | 8.15 | 960 | 2,900 | --- | ND < 5.0 | 230 | 6.2 | 3.8 | 4.2 | 6.7 | --- | 2.0 |
| 1/26/2000 | 46.87 | 46.87 | 4.00 | 1,400 | 370 | ND < 500 | --- | 270 | 7.5 | 2.2 | 3.9 | ND < 8.0 | --- | --- |
| 5/3/2000 | 44.88 | 44.88 | 5.99 | 640 | ND < 50 | ND < 170 | --- | 200 | ND < 10 | 2.5 | 1.7 | ND < 10 | --- | --- |
| 8/3/2000 | 42.07 | 42.07 | 8.80 | 1,000 | ND < 50 | ND < 170 | --- | 210 | 8.5 | 2.8 | 3.0 | ND < 30 | --- | 0.7 |
| 10/11/2000 | 39.62 | 39.62 | 11.25 | 5,800 | ND < 50 | ND < 170 | --- | 500 | 39 | 47 | 22.2 | ND < 20 | --- | 0.8 |
| 1/4/2001 | 43.01 | 43.01 | 7.86 | 1,800 | 94 | ND < 170 | --- | 580 | 9.1 | 3.3 | 4.0 | ND < 2 | --- | --- |
| 4/12/2001 | 45.38 | 45.38 | 5.49 | ND < 100 | ND < 50 w/ silica gel | ND < 170 | --- | 10 | ND < 0.50 | ND < 0.50 | ND < 0.50 | ND < 0.50 | --- | 0.9 |
| 7/10/2001 | 41.70 | 41.70 | 9.17 | 2,300 | 94 | ND < 170 | --- | 610 | 12 | 4.3 | 8.14 | ND < 1.0 | TBA - 20 DIPE-1.8 | 1.0 |
| 11/1/2001 | Well is buried | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/10/2001 | 46.15 | 46.15 | 4.72 | ND < 50 | ND < 50 | ND < 170 | --- | ND < 0.50 | ND < 0.50 | ND < 0.50 | ND < 0.50 | ND < 1.0 | --- | 5.1 |
| 3/28/2002 | 45.80 | 45.80 | 5.07 | 82 | 62 | ND < 170 | --- | 11 | ND < 0.50 | ND < 0.50 | 0.61 | ND < 1.0 | ND < 1-20 ND < 1-20 | --- |
| 6/27/2002 | Well inaccessible | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/25/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/23/2003 | 40.90 | 40.90 | 9.97 | 1,000 | 65 | ND < 170 | --- | 200 | 3.9 | 1.2 | 2.0 | ND < 1.0 | ND < 1-20 | 0.63 |
| 3/23/2004 | 44.55 | 44.55 | 6.32 | 710 | ND < 50 | ND < 170 | --- | 130 | 2.1 | 0.71 | 1.2 | ND < 1.0 | ND < 1-10 | 0.65 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|-----------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-3 Continued | | | | | | | | | | | | | | |
| 9/27/2004 | 39.64 | 11.23 | | 2,100 | 110 | ND<170 | --- | 480 | 16 | 3.9 | 6.9 | ND<20 | --- | 0.52 |
| 3/30/2005 | 48.64 | 2.23 | | 180 | ND<50 | ND<170 | --- | 38 | 1.2 | ND<0.50 | 0.59 | ND<3.0 | --- | 0.51 |
| 4/26/2005 | 44.58 | 6.29 | | 1,400 | 71 | --- | --- | 270 | 11 | 2.7 | 4.5 | ND<20 | --- | 0.42 |
| MW-4 | | | | | | | | | | | | | | |
| | 52.62 | | | | | | | | | | | | | |
| 6/3/1994 | 48.79 | 3.83 | | --- | --- | --- | 2,800 | --- | --- | --- | --- | --- | Tannin/Lignin = ND | --- |
| 7/19/1994 | 47.27 | 5.35 | | ND | ND | --- | --- | ND | ND | ND | ND | --- | --- | 3.0 |
| 9/21/1994 | 44.29 | 8.33 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/25/1994 | 42.99 | 9.63 | | ND | ND | --- | --- | ND | ND | ND | ND | --- | --- | 7.0 |
| 11/16/1994 | 47.75 | 4.87 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/8/1994 | 49.87 | 2.75 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/9/1995 | 52.62 | 0.00 | | ND | 300 | --- | --- | ND | ND | ND | ND | --- | --- | 6.0 |
| 2/7/1995 | 51.76 | 0.86 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/7/1995 | 51.43 | 1.19 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/5/1995 | 51.07 | 1.55 | | ND | 86 | --- | --- | ND | ND | ND | ND | --- | --- | 4.0 |
| 6/23/1995 | 49.47 | 3.15 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/5/1995 | 48.87 | 3.75 | | ND | 130 | --- | --- | ND | ND | ND | ND | --- | --- | 2.5 |
| 8/3/1995 | 47.69 | 4.93 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/6/1995 | 46.42 | 6.20 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/9/1995 | 46.21 | 6.41 | | ND | 69 | --- | --- | ND | ND | ND | ND | --- | --- | 2.5 |
| 1/16/1996 | 51.75 | 0.87 | | ND | 95 | --- | --- | ND | ND | ND | ND | --- | --- | 4.5 |
| 4/23/1996 | 51.42 | 1.20 | | ND | 59 | --- | --- | ND | ND | ND | ND | --- | --- | 4.0 |
| 7/10/1996 | 48.37 | 4.25 | | ND | 53 | --- | --- | ND | ND | ND | ND | --- | --- | 4.0 |
| 10/22/1996 | 46.10 | 6.52 | | ND | 86 | --- | --- | ND | ND | ND | ND | --- | --- | 4.0 |
| 1/21/1997 | 51.37 | 1.25 | | ND | 81 | --- | --- | ND | ND | ND | ND | --- | --- | 3.0 |
| 4/15/1997 | 49.62 | 3.00 | | ND | ND | --- | --- | ND | ND | ND | ND | --- | --- | 3.0 |
| 5/20/1997 | 49.10 | 3.52 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/29/1997 | 46.97 | 5.65 | | ND | 210 | --- | --- | ND | ND | ND | ND | --- | --- | 3.0 |
| 10/15/1997 | 46.67 | 5.95 | | ND<50 | ND<50 | --- | ND<1.3 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 2.0 |
| 1/20/1998 | 49.97 | 2.65 | | ND | 140 | --- | --- | ND | ND | ND | ND | --- | --- | 2.0 |
| 4/15/1998 | 51.27 | 1.35 | | ND | ND | --- | 1.0 | ND | ND | ND | ND | --- | --- | 2.4 |
| 7/28/1998 | 47.72 | 4.90 | | ND<50 | 75 | --- | ND<5.0 | ND<0.50 | 1.1 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 3.2 |
| 1/26/2000 | 51.85 | 0.77 | | ND<50 | ND<50 | ND<500 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 37 | --- | --- |
| 5/3/2000 | 51.13 | 1.49 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | 48.33 | 4.29 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 1.2 |
| 8/3/2000 | duplicate sample | | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.8 |
| 10/11/2000 | 45.65 | 6.97 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 0.8 |
| 1/4/2001 | 49.91 | 2.71 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 1.2 |
| 4/12/2001 | 50.81 | 1.81 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 1.2 |
| 7/10/2001 | 47.20 | 5.42 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<0.50-20 | 0.4 |
| 11/1/2001 | 45.55 | 7.07 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<0.50-20 | 0.4 |
| 12/10/2001 | 51.56 | 1.06 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | COB - 7700 | 0.6 |
| 3/28/2002 | 51.06 | 1.56 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<1-20 | 1.0 |
| 6/27/2002 | 47.96 | 4.66 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<1-20 | 0.8 |
| 9/11/2002 | 45.22 | 7.40 | | ND<50 | ND<50 | ND<170 | --- | 1.6 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | ND<1-20 | 0.8 |
| 12/4/2002 | Well destroyed | | | ND<50 | ND<50 | ND<170 | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. JTHU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-5 | 52.40 | | | | | | | | | | | | | |
| 6/3/1994 | 47.96 | 47.96 | 4.44 | ND | 400 | ND | ND | ND | ND | ND | ND | ND | ND | 4.0 |
| 7/19/1994 | 46.57 | 46.57 | 5.83 | ND | 78 | ND | ND | ND | ND | ND | ND | ND | ND | 1.0 |
| 9/21/1994 | 43.70 | 43.70 | 8.70 | ND | 330 | ND | ND | 1.8 | ND | ND | 2.2 | ND | ND | 5.0 |
| 10/25/1994 | 42.40 | 42.40 | 10.00 | ND | 53 | ND | ND | 2.4 | 0.53 | 0.53 | 3.0 | ND | ND | 3.0 |
| 11/16/1994 | 47.42 | 47.42 | 4.98 | ND | 400 | ND | ND | ND | ND | ND | ND | ND | ND | 4.0 |
| 12/8/1994 | 48.75 | 48.75 | 3.65 | ND | 370 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1/9/1995 | 51.32 | 51.32 | 1.08 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2/7/1995 | 50.54 | 50.54 | 1.86 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3/7/1995 | 50.02 | 50.02 | 2.38 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4/5/1995 | 49.84 | 49.84 | 2.56 | 53 | 380 | ND | ND | 2.4 | 0.53 | 0.53 | 3.0 | ND | ND | 3.0 |
| 6/23/1995 | 48.33 | 48.33 | 4.07 | ND | 400 | ND | ND | ND | ND | ND | ND | ND | ND | 4.0 |
| 7/5/1995 | 47.59 | 47.59 | 4.81 | ND | 370 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7/5/95 (D) | | duplicate sample | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 8/3/1995 | 46.50 | 46.50 | 5.90 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 9/6/1995 | 45.56 | 45.56 | 6.84 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10/9/1995 | 45.08 | 45.08 | 7.32 | ND | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 6.0 |
| 11/16/1995 | 44.77 | 44.77 | 7.63 | ND | 560 | ND | 1.4 | 4.2 | 0.78 | 0.58 | 2.9 | ND | ND | 3.0 |
| 1/16/1996 | 51.30 | 51.30 | 1.10 | ND | 590 | ND | ND | 2.3 | ND | ND | 1.1 | ND | ND | 4.0 |
| 4/23/1996 | 50.30 | 50.30 | 2.10 | ND | 380 | ND | ND | 0.52 | ND | ND | ND | ND | ND | 3.0 |
| 7/10/1996 | 47.65 | 47.65 | 4.75 | ND | 320 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7/10/1996 | 45.50 | 45.50 | 6.90 | ND | 630 | ND | ND | 0.90 | ND | ND | 0.82 | ND | ND | 3.0 |
| 10/22/1996 | 50.05 | 50.05 | 2.35 | 75 | 330 | ND | ND | 0.69 | ND | ND | ND | ND | ND | 3.0 |
| 1/21/1997 | 48.40 | 48.40 | 4.00 | ND | 450 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4/15/1997 | 48.72 | 48.72 | 3.68 | ND | 450 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 5/20/1997 | 46.70 | 46.70 | 5.70 | ND | 450 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7/29/1997 | 46.05 | 46.05 | 6.35 | ND<50 | 450 ⁸ | ND<1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND | 3.0 |
| 10/15/1997 | 50.25 | 50.25 | 2.15 | ND | 430 | ND | ND | ND | ND | ND | ND | ND | ND | 3.0 |
| 1/20/1998 | 50.35 | 50.35 | 2.05 | ND | 550 | ND | 6.4 | 0.5 | ND | ND | ND | ND | ND | 2.8 |
| 4/15/1998 | 46.90 | 46.90 | 5.50 | ND<50 | 220 | ND | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND | 2.6 |
| 7/28/1998 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1/26/2000 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 5/3/2000 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 8/3/2000 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 10/11/2000 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1/4/2001 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4/12/2001 | 49.65 | 49.65 | 2.75 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND | 0.7 |
| 7/10/2001 | 46.32 | 46.32 | 6.08 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50-20 | 0.4 |
| 11/1/2001 | 43.95 | 43.95 | 8.45 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50-20 | ND |
| 12/10/2001 | 50.40 | 50.40 | 2.00 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50-20 | 1.4 |
| 3/28/2002 | 50.21 | 50.21 | 2.19 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50-20 | 0.9 |
| 6/27/2002 | 48.30 | 48.30 | 4.10 | ND<50 | ND<50 | ND<170 | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50-20 | 0.35 |
| 9/11/2002 | Well not found | Well not found | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 12/4/2002 | Well destroyed | Well destroyed | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU1116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|-----------------|-----------------|----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-6 | 50.63 | | | | | | | | | | | | | |
| 6/3/1994 | 46.32 | 46.32 | 4.31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/19/1994 | 44.63 | 44.63 | 6.00 | ND | ND | --- | ND | ND | ND | ND | ND | --- | --- | 2.0 |
| 9/21/1994 | 42.17 | 42.17 | 8.46 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/25/1994 | 41.30 | 41.30 | 9.33 | ND | ND | --- | ND | ND | ND | ND | ND | --- | --- | 2.0 |
| 11/16/1994 | 48.24 | 48.24 | 2.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/8/1994 | 48.75 | 48.75 | 1.88 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/9/1995 | 49.62 | 49.62 | 1.01 | ND | 150 | --- | ND | ND | ND | ND | ND | --- | --- | 3.0 |
| 2/7/1995 | 49.01 | 49.01 | 1.62 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/7/1995 | 48.28 | 48.28 | 2.35 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/5/1995 | 48.20 | 48.20 | 2.43 | ND | 87 | --- | ND | 0.81 | ND | ND | ND | --- | --- | 2.0 |
| 6/23/1995 | 47.46 | 47.46 | 3.17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/5/1995 | 46.65 | 46.65 | 3.98 | ND | 120 | --- | ND | ND | ND | ND | ND | --- | --- | 3.5 |
| 8/3/1995 | 46.03 | 46.03 | 4.60 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/6/1995 | 46.13 | 46.13 | 4.50 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/9/1995 | 47.14 | 47.14 | 3.49 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1.5 |
| 11/16/1995 | 48.11 | 48.11 | 2.52 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1/16/1996 | 49.70 | 49.70 | 0.93 | ND | 200 | --- | 1.3 | ND | ND | ND | ND | --- | --- | 2.0 |
| 4/23/1996 | 49.38 | 49.38 | 1.25 | ND | 140 | --- | ND | ND | ND | ND | ND | --- | --- | 3.0 |
| 7/10/1996 | 47.78 | 47.78 | 2.85 | ND | 120 | --- | ND | ND | ND | ND | ND | --- | --- | 3.0 |
| 10/22/1996 | 47.40 | 47.40 | 3.23 | ND | 120 | --- | ND | ND | ND | ND | ND | --- | --- | 3.0 |
| 10/22/96 (D) | | | | ND | 140 | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| 1/21/1997 | 50.08 | 50.08 | 0.55 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/15/1997 | 48.88 | 48.88 | 1.75 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5/20/1997 | 47.96 | 47.96 | 2.67 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7/29/1997 | 47.13 | 47.13 | 3.50 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10/15/1997 | 47.53 | 47.53 | 3.10 | ND | 86 ⁸ | --- | ND | ND | ND | ND | ND | ND | --- | 3.0 |
| 1/20/1998 | 49.38 | 49.38 | 1.25 | ND | 52 ⁸ | --- | ND | ND | ND | ND | ND | ND | --- | 2.0 |
| 4/15/1998 | 49.28 | 49.28 | 1.35 | ND | ND | --- | 2.8 | ND | ND | ND | ND | ND | --- | 2.6 |
| 7/28/1998 | 47.15 | 47.15 | 3.48 | ND | 74 ⁸ | --- | ND | ND | ND | ND | ND | ND | --- | 2.4 |
| 1/26/2000 | 49.23 | 49.23 | 1.40 | ND | 50 | --- | ND | ND | ND | ND | ND | ND | --- | --- |
| 5/3/2000 | 47.95 | 47.95 | 2.68 | ND | 50 | --- | --- | ND | ND | ND | ND | 37 | --- | --- |
| 8/3/2000 | 44.50 | 44.50 | 6.13 | ND | 50 | --- | --- | ND | ND | ND | ND | ND | --- | --- |
| 10/11/2000 | 44.83 | 44.83 | 5.80 | ND | 50 | --- | --- | ND | ND | ND | ND | 5.7 | --- | 0.7 |
| 1/4/2001 | 46.56 | 46.56 | 4.07 | ND | 50 | --- | --- | 5.8 | ND | ND | ND | 31 | --- | 1.0 |
| 4/12/2001 | 48.70 | 48.70 | 1.93 | ND | 50 | --- | --- | ND | ND | ND | ND | 23 | --- | --- |
| 7/10/2001 | 44.97 | 44.97 | 5.66 | ND | 50 | --- | --- | ND | ND | ND | ND | 10 | --- | 1.1 |
| 11/1/2001 | 45.14 | 45.14 | 5.49 | ND | 50 | --- | --- | ND | ND | ND | ND | 31 | ND | 0.5 |
| 12/10/2001 | 49.27 | 49.27 | 1.36 | ND | 50 | --- | --- | ND | ND | ND | ND | 25 | ND | 0.4 |
| 3/28/02 | 48.33 | 48.33 | 2.30 | ND | 50 | --- | --- | ND | ND | ND | ND | 14 | ND | 0.9 |
| 6/27/2002 | 46.43 | 46.43 | 4.20 | ND | 50 | --- | --- | ND | ND | ND | ND | 14 | TAME - 1.7 | 1.1 |
| 9/11/2002 | 43.73 | 43.73 | 6.90 | ND | 50 | --- | --- | ND | ND | ND | ND | 15 | ND | --- |
| 12/5/2002 | | | | | | | | | | | | | | |

Well destroyed

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. JTHU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPBhr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|--------------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-7/V-2 | 51.05 | | | | | | | | | | | | | |
| 6/3/1994 | 42.49 | 42.49 | 8.56 | 5,100 | 4,700 | | 2,700 | 460 | 87 | 160 | 130 | | | 3.0 |
| 7/19/1994 | 40.62 | 40.62 | 10.43 | 4,000 | 2,500 | | ND | 430 | 46 | 95 | 59 | | | 1.0 |
| 9/21/1994 | 36.83 | 36.83 | 14.22 | | | | | | | | | | | |
| 10/25/1994 | 35.87 | 35.87 | 15.18 | | | | | | | | | | | |
| 11/16/1994 | 39.29 | 39.29 | 11.76 | | | | | | | | | | | |
| 12/8/1994 | 43.88 | 43.88 | 7.17 | | | | | | | | | | | |
| 1/9/1995 | 49.78 | 49.78 | 1.27 | 3,400 | 3,000 | | ND | 350 | 66 | 99 | 73 | | | 5.0 |
| 2/7/1995 | 46.73 | 46.73 | 4.32 | | | | | | | | | | | |
| 3/7/1995 | 46.41 | 46.41 | 4.64 | | | | | | | | | | | |
| 4/5/1995 | 45.95 | 45.95 | 5.10 | 2,900 | 2,100 | | ND | 340 | 38 | 61 | 39 | | | 4.0 |
| 6/23/1995 | 42.86 | 42.86 | 8.19 | | | | | | | | | | | |
| 7/5/1995 | 42.75 | 42.75 | 8.30 | 3,500 | 2,700 | | ND | 390 | 60 | 74 | 30 | | | 3.0 |
| 8/3/1995 | 41.31 | 41.31 | 9.74 | | | | | | | | | | | |
| 9/6/1995 | 39.47 | 39.47 | 11.58 | | | | | | | | | | | |
| 10/9/1995 | 38.01 | 38.01 | 13.04 | 2,500 | 4,300 | | ND | 330 | 45 | 55 | 35 | | | 2.5 |
| 11/16/1995 | 36.76 | 36.76 | 14.29 | | | | | | | | | | | |
| 1/16/1996 | 47.83 | 47.83 | 3.22 | 1,900 | 4,900 | | 3.1 | 250 | 38 | 49 | 43 | | | 4.0 |
| 4/23/1996 | 46.40 | 46.40 | 4.65 | 2,100 | 3,300 | | 2.2 | 290 | 46 | 34 | 47 | | | |
| 7/10/1996 | 43.85 | 43.85 | 7.20 | 3,900 | 3,900 | | ND | 570 | 54 | 110 | 83 | | | 3.0 |
| 10/22/1996 | 38.25 | 38.25 | 12.80 | 3,200 | 4,100 | | 2.2 | 390 | 54 | 57 | 43 | | | 4.0 |
| 1/21/1997 | 45.95 | 45.95 | 5.10 | 2,900 | 5,500 | | 2.5 | 370 | 15 | 41 | 33 | | | 3.0 |
| 4/15/1997 | 43.50 | 43.50 | 7.55 | 4,200 | 3,000 | | 2.9 | 340 | 37 | 50 | 45 | | | 4.0 |
| 5/20/1997 | 43.40 | 43.40 | 7.65 | | | | | | | | | | | |
| 7/29/1997 | 40.70 | 40.70 | 10.35 | 3,800 | 4,200 | | | 450 | 41 | 67 | 54 | | | 4.0 |
| 10/15/1997 | 39.00 | 39.00 | 12.05 | 3,900 | 7,300 ^a | | 1.8 | 350 | 55 | 58 | 35 | | | 4.0 |
| 1/20/1998 | 49.90 | 49.90 | 1.15 | 2,000 | 2,300 | | 1.1 | 140 | 23 | ND | 17 | | | 3.0 |
| 4/15/1998 | 46.60 | 46.60 | 4.45 | 6,300 | 3,600 | | 30 | 530 | 34 | 37 | 63 | | | 3.0 |
| 7/28/1998 | 41.40 | 41.40 | 9.65 | 3,100 | 2,600 | | ND<5.0 | 360 | 29 | 32 | 26 | | | 2.6 |
| 1/26/2000 | 46.69 | 46.69 | 4.36 | 3,700 | 1,000 | | | 280 | ND<0.50 | 27 | 19 | | | |
| 5/3/2000 | 44.66 | 44.66 | 6.39 | 400 | 89 | | | 61 | ND<10 | ND<3.0 | ND<3.0 | | | |
| 8/3/2000 | 40.27 | 40.27 | 10.78 | 890 | ND<50 | | | 120 | 14 | 9 | 5.3 | | | 0.9 |
| 10/11/2000 | 37.03 | 37.03 | 14.02 | 390 | ND<50 | | | 180 | ND<1.0 | ND<1.0 | ND<1.0 | | | 0.8 |
| 1/4/2001 | 41.42 | 41.42 | 9.63 | 3,200 | 260 | | | 340 | 24 | 25 | 18.6 | | | |
| 4/12/2001 | 45.41 | 45.41 | 5.64 | 380 | ND<50 w/ sulfur | | | 39 | 1.4 | 1.4 | ND<1.0 | | | 0.5 |
| 7/10/2001 | 40.11 | 40.11 | 10.94 | 4,500 | 420 | | | 380 | 33 | 36 | 32.6 | | ND<1.0 | 2.0 |
| 11/1/2001 | 35.98 | 35.98 | 15.07 | 2,600 | 220 | | | 340 | 26 | 26 | 21.7 | | ND<2.40 | |
| 12/10/2001 | 46.31 | 46.31 | 4.74 | ND<50 | ND<50 | | | 2.5 | ND<0.50 | ND<0.50 | ND<0.50 | | COD - 76000 | 3.7 |
| 3/28/2002 | 46.40 | 46.40 | 4.65 | 1,000 | 140 | | | 41 | 3.4 | 4.4 | 4.0 | | ND<1.20 | 1.0 |
| 6/27/2002 | 42.89 | 42.89 | 8.16 | 2,700 | 350 | | | 370 | 25 | 23 | 19 | | ND<1.20 | 0.4 |
| 9/11/2002 | 39.70 | 39.70 | 11.35 | 4,100 | 270 | | | 320 | 22 | ND<2.5 | 20 | | TBA - 120 | 1.4 |
| 3/27/2003 | --- | --- | --- | 3,300 | 140 | | | 130 | 16 | 22 | 19.8 | | ND<1.0-20 | |
| 9/23/2003 | 40.05 | 40.05 | 11.00 | 1,200 | 74 | | | 120 | 11 | 12 | 7.0 | | ND<1.0-20 | 0.0 |
| 3/23/2004 | 44.96 | 44.96 | 6.09 | 690 | ND<50 | | | 26 | 2.4 | 3.0 | 2.7 | | ND<1.0 | 0.88 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 17THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAYD88) | Groundwater Elevation (feet, NAYD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|-----------------------------|--|--|-----------------------------|----------------|---------------------|-----------------|----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-7/ V-2 continued | | | | | | | | | | | | | | |
| 9/22/2004 | | 37.89 | 13.16 | 1,800 | 75 | ND<170 | --- | 230 | 28 | 16 | 10 | ND<70 | --- | 0.25 |
| 4/26/2005 | | 45.25 | 5.80 | 500 | ND<50 | --- | --- | 13 | 4.9 | 2.8 | 2.1 | ND<18 | --- | 0.65 |
| MW-8 | | | | | | | | | | | | | | |
| 51.13 | | | | | | | | | | | | | | |
| 5/20/1997 | | 43.70 | 7.43 | ND | 74 | --- | ND | ND | ND | ND | ND | ND | --- | --- |
| 7/29/1997 | | 41.78 | 9.35 | ND | 150 | --- | --- | ND<0.50 | ND | ND | ND | ND | --- | 2.0 |
| 10/15/1997 | | 39.86 | 11.27 | ND<50 | 160 ^s | --- | ND<1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 3.0 |
| 1/20/1998 | | 49.28 | 1.85 | ND | 110 | --- | ND | ND | ND | ND | ND | ND | --- | 2.0 |
| 4/15/1998 | | 48.13 | 3.00 | ND | ND | --- | 4.1 | ND | ND | ND | ND | ND | --- | 2.2 |
| 7/28/1998 | | 42.68 | 8.45 | ND<50 | ND<50 | --- | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 2.6 |
| 1/26/2000 | | 48.08 | 3.05 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | | 44.47 | 6.66 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | | 41.85 | 9.28 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 1.6 |
| 10/11/2000 | | 39.06 | 12.07 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 1.0 |
| 1/4/2001 | | 40.89 | 10.24 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | --- |
| 4/12/2001 | | 44.16 | 6.97 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | --- |
| 7/10/2001 | | 42.13 | 9.00 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 1 |
| 11/1/2001 | | 37.89 | 13.24 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 0.4 |
| 12/10/2001 | | 44.01 | 7.12 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 4.7 |
| 3/28/2002 | | 46.25 | 4.88 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.5 | --- | 1.0 |
| 6/20/2002 | | Well Destroyed | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | | | | | | | | | | | | | | |
| 53.13 | | | | | | | | | | | | | | |
| 5/20/1997 | | 42.95 | 10.18 | 1,200 | 1,700 | --- | 7.6 | 400 | ND | ND | ND | ND | --- | --- |
| 7/29/1997 | | 40.93 | 12.20 | 530 | 5,500 | --- | --- | 150 | ND | ND | ND | ND | --- | 2.0 |
| 10/15/1997 | | 39.13 | 14.00 | 3,200 | 13,000 ⁶ | --- | 13 | 160 | ND<2.5 | ND<2.5 | ND<2.5 | 18 | --- | 3.0 |
| 1/20/1998 | | 49.23 | 3.90 | 150 | 990 | --- | ND | 34 | ND | ND | ND | ND | --- | 2.0 |
| 4/15/1998 | | 47.18 | 5.95 | 460 | 940 | --- | 26 | 2.5 | ND | ND | ND | ND | --- | 2.6 |
| 7/28/1998 | | 41.93 | 11.20 | 240 | 1,200 | --- | ND<5.0 | 66 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 2.2 |
| 1/26/2000 | | 46.88 | 6.25 | 1300 | 280 | --- | --- | 470 | 2.6 | 1.9 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | | 43.88 | 9.25 | 340 | ND<50 | --- | --- | 100 | 1.1 | 0.93 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | | 41.33 | 11.80 | 350 | ND<50 | --- | --- | 120 | 1.1 | 1.2 | ND<1.5 | ND<15 | --- | 1.1 |
| 10/11/2000 | | 38.85 | 14.28 | 810 | ND<50 | --- | --- | 390 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | --- | 0.7 |
| 1/4/2001 | | 40.69 | 12.44 | 950 | 230 | --- | --- | 380 | 2.2 | ND<1.0 | ND<1.0 | ND<1.0 | --- | --- |
| 4/12/2001 | | 42.44 | 10.69 | 1,600 | --- | --- | --- | 740 | 5.4 | 2.1 | ND<2.0 | ND<1.0 | --- | 1.7 |
| <i>67 w/ silica ged</i> | | | | | | | | | | | | | | |
| <i>cleanup</i> | | | | | | | | | | | | | | |
| 7/10/2001 | | 41.35 | 11.78 | 360 | 730 | --- | --- | 45 | 1.2 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 4.0 |
| 11/1/2001 | | 37.34 | 15.79 | 1,100 | 160 | --- | --- | 310 | 3.2 | 0.62 | 0.80 | ND<1.0 | --- | --- |
| 12/10/2001 | | 43.83 | 9.30 | 270 | ND<50 | --- | --- | 39 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- |
| 3/28/2002 | | 45.59 | 7.54 | 350 | 91 | --- | --- | 1.8 | ND<0.50 | ND<0.50 | 0.59 | ND<1.0 | --- | 1.0 |
| 6/27/2002 | | 42.44 | 10.69 | 130 | 62 | --- | --- | 8.3 | ND<1.0 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- |
| 9/11/2002 | | 39.47 | 13.66 | 690 | 110 | --- | --- | 2.7 | ND<1.0 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.7 |
| 3/27/2003 | | 46.97 | 6.16 | 240 | 58 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 3.52 |
| 9/23/2003 | | 41.11 | 12.02 | 330 | ND<50 | --- | --- | 0.78 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.00 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|-----------------------|--|--|-----------------------------|----------------|------------------|-----------------|-----------------|--|--|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-9 Continued | | | | | | | | | | | | | | |
| 3/23/2004 | 44.24 | 44.24 | 8.89 | 130 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0 | 0.28 |
| 9/22/2004 | 38.51 | 38.51 | 14.62 | 280 | 69 | ND<170 | --- | ND<3.0 | ND<1.0 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.71 |
| 4/26/2005 | 44.57 | 44.57 | 8.56 | 160 | 69 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.54 |
| MW-10 | | | | | | | | | | | | | | |
| 5/20/1997 | 51.42 | 43.05 | 8.37 | ND | 910 | --- | 7.6 | ND | ND | ND | ND | ND | --- | --- |
| 7/29/1997 | 41.82 | 41.82 | 9.60 | ND | 1,100 | --- | --- | ND | ND | ND | ND | ND | --- | 3.0 |
| 10/15/1997 | 41.72 | 41.72 | 9.70 | ND<50 | 860 ^a | --- | ND<1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 2.0 |
| 1/20/1998 | 48.17 | 48.17 | 3.25 | ND | 640 | --- | ND | ND | ND | ND | ND | ND | --- | 2.0 |
| 4/15/1998 | 45.17 | 45.17 | 6.25 | ND | 800 | --- | 5.6 | ND | ND | ND | ND | ND | --- | 2.4 |
| 7/28/1998 | 41.37 | 41.37 | 10.05 | ND<50 | 740 | --- | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | --- | 2.6 |
| 1/26/2000 | 45.67 | 45.67 | 5.75 | ND<500 | 69 | ND<500 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | 43.75 | 43.75 | 7.67 | ND<50 | ND<50 | ND<370 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | 40.14 | 40.14 | 11.28 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.8 |
| 10/11/2000 | 37.04 | 37.04 | 14.38 | ND<500 | ND<500 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | --- | 1.4 |
| 1/4/2001 | 41.78 | 41.78 | 9.64 | ND<500 | ND<50 | ND<170 | --- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | --- | --- |
| 4/12/2001 | 44.39 | 44.39 | 7.03 | ND<250 | ND<50 | ND<170 | --- | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | --- | 1.2 |
| 7/10/2001 | 39.92 | 39.92 | 11.50 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.5 |
| 11/1/2001 | 36.15 | 36.15 | 15.27 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- |
| 12/10/2001 | 45.16 | 45.16 | 6.26 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 4.7 |
| 3/28/2002 | 44.80 | 44.80 | 6.62 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 1.1 |
| 6/27/2002 | 42.05 | 42.05 | 9.37 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.95 |
| 9/11/2002 | 38.63 | 38.63 | 12.79 | ND<50 | ND<50 | ND<170 | --- | 1.6 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 1.8 |
| 3/27/2003 | 47.16 | 47.16 | 4.26 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 3.65 |
| 9/23/2003 | 39.10 | 39.10 | 12.32 | 61 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.00 |
| 3/23/2004 | 43.85 | 43.85 | 7.57 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.48 |
| 9/22/2004 | 37.62 | 37.62 | 13.80 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.26 |
| 3/30/2005 | 47.71 | 47.71 | 3.71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/26/2005 | 44.07 | 44.07 | 7.35 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.68 |
| MW-11 | | | | | | | | | | | | | | |
| 5/20/1997 | 48.30 | 34.34 | 13.96 | ND | --- | --- | --- | ND | ND | ND | ND | --- | --- | --- |
| 7/29/1997 | 16.00 | 32.30 | 16.00 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 10/15/1997 | 15.85 | 32.45 | 15.85 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 1/20/1998 | --- | --- | --- | --- | --- | --- | --- | Well Inaccessible | Well Inaccessible | --- | --- | --- | --- | --- |
| 4/15/1998 | --- | --- | --- | --- | --- | --- | --- | Well Inaccessible | Well Inaccessible | --- | --- | --- | --- | --- |
| 5/14/1998 | --- | --- | --- | ND | 320 | --- | --- | ND | ND | ND | ND | --- | --- | --- |
| 7/28/1998 | 15.25 | 33.05 | 15.25 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 1/26/2000 | 10.41 | 37.89 | 10.41 | ND<50 | ND<50 | ND<500 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | 13.17 | 35.13 | 13.17 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | 0.73 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 10/11/2000 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 1/4/2001 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 4/12/2001 | 13.38 | 34.92 | 13.38 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 2.1 |
| 7/10/2001 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 11/1/2001 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- | --- |
| 12/10/2001 | 12.85 | 35.45 | 12.85 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 5.4 |
| 3/28/2002 | 11.24 | 37.06 | 11.24 | ND<50 | ND<50 | 210 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 1.69 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|--|--|----------------|-----------------|--|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-11 Continued | | | | | | | | | | | | | | |
| 6/27/2002 | Insufficient amount of water to sample | | | Insufficient amount of water to sample | | | | | | | | | | |
| 9/11/2002 | Insufficient amount of water to sample | | | Insufficient amount of water to sample | | | | | | | | | | |
| 9/23/2003 | 40.69 | 7.61 | ND<50 | ND<50 | 7,000 | ND<170 | 7.8 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 3.7 |
| 3/23/2004 | 55.06 | 13.24 | ND<50 | ND<50 | ND<50 | ND<170 | Insufficient amount of water to sample | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-10 | --- |
| 3/30/2005 | 39.58 | 8.72 | Insufficient amount of water to sample | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- | --- |
| 4/26/2005 | 35.34 | 12.96 | ND<50 | ND<50 | ND<50 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| MW-12 | | | | | | | | | | | | | | |
| 51.11 | | | | | | | | | | | | | | |
| 5/20/1997 | 47.67 | 3.44 | 47,000 | 7,000 | --- | --- | 7.8 | 12,000 | 1,600 | 1,000 | 2,600 | ND | --- | --- |
| 7/29/1997 | 43.76 | 7.35 | 67,000 | 4,500 | --- | --- | --- | 24,000 | 640 | 1,500 | 1,900 | ND | --- | 4.0 |
| 10/15/1997 | 46.74 | 4.37 | 24,000 | 2,600 ⁸ | --- | --- | 2.1 | 8,300 | 160 | 560 | 770 | ND<500 | --- | 4.0 |
| 1/20/1998 | 47.66 | 3.45 | 17 | 4,500 ⁸ | --- | --- | 1.4 | 5,200 | 350 | 730 | 1,500 | ND | --- | 3.0 |
| 4/15/1998 | 48.91 | 2.20 | 110,000 | 2,900 | --- | --- | 36 | 42,000 | ND | 1,800 | ND | ND | --- | --- |
| 4/15/98 (D) | duplicate sample | | | 110,000 | 2,500 | --- | --- | 36,000 | 2,500 | 1,700 | 3,400 | ND | --- | --- |
| 7/28/1998 | 46.16 | 4.95 | 72,000 | 4,900 ⁸ | --- | --- | ND<5.0 | 23,000 | 830 | 1,700 | 2,200 | ND<2.5 | --- | --- |
| 1/26/2000 | 49.17 | 1.94 | 12,000 | 410 | ND<500 | --- | --- | 3,300 | 60 | ND<5.0 | 52 | ND<100 | --- | --- |
| 5/3/2000 | 47.50 | 3.61 | 32,000 | ND<50 | ND<170 | --- | --- | 17,000 | 380 | 610 | 880 | ND<300 | --- | --- |
| 5/3/2000 | duplicate sample | | | --- | --- | --- | --- | 17,000 | 360 | 560 | 800 | ND<150 | --- | --- |
| 8/3/2000 | 44.14 | 6.97 | 60,000 | ND<50 | ND<170 | --- | --- | 44,000 | 390 | 1200 | 417 | ND<600 | --- | 0.8 |
| 10/11/2000 | 43.83 | 7.28 | 84,000 | ND<50 | ND<170 | --- | --- | 52,000 | 300 | 1,300 | 130 | ND<100 | --- | 0.8 |
| 1/4/2001 | 46.94 | 4.17 | 85,000 | 270 | ND<170 | --- | --- | 45,000 | 180 | 1,000 | ND<100 | ND<100 | --- | --- |
| 4/12/2001 | 48.37 | 2.74 | 15,000 | 180 w/ <i>sifica</i> | ND<170 | --- | --- | 7,100 | 88 | 350 | 358 | ND<20 | --- | 0.6 |
| 7/10/2001 | 44.61 | 6.50 | 52,000 | 300 | ND<170 | --- | --- | 41,000 | 250 | 1,100 | 318 | ND<20 | ND<20-400 | 0.6 |
| 11/1/2001 | 44.87 | 6.24 | 48,000 | 220 | ND<170 | --- | --- | 50,000 | 190 | 700 | 321 | ND<50 | ND<20-400 | --- |
| 12/10/2001 | 49.51 | 1.60 | 19,000 | 100 | ND<170 | --- | --- | 7,900 | 62 | 150 | 138 | ND<5.0 | COD - 160000 | 0.2 |
| 3/28/2002 | 48.33 | 2.78 | 20,000 | 180 | ND<170 | --- | --- | 6,300 | 42 | 82 | 64 | ND<50 | ND<50-1000 | 0.9 |
| 6/27/2002 | 46.22 | 4.89 | 19,000 | 480 | ND<170 | --- | --- | 10,000 | 140 | 410 | 504 | ND<4.0 | ND<1-20 | 0.48 |
| 9/11/2002 | 43.01 | 8.10 | 91,000 | 200 | ND<170 | --- | --- | 45,000 | 190 | 750 | 384 | ND<50 | ND<50-1000 | --- |
| 12/6/2002 | Well destroyed | | | | | | | | | | | | | |
| MW-13 | | | | | | | | | | | | | | |
| 50.19 | | | | | | | | | | | | | | |
| 5/20/1997 | 44.09 | 6.10 | 38,000 | 3,400 | --- | --- | ND | 8,900 | 2,600 | 1,200 | 2,000 | ND | --- | --- |
| 7/29/1997 | 45.19 | 5.00 | 37,000 | 3,200 | --- | --- | --- | 7,400 | 1,700 | 1,300 | 1,400 | ND | --- | 4.0 |
| 10/15/1997 | 43.59 | 6.60 | 27,000 | 2,700 ⁸ | --- | --- | 3.8 | 7,600 | 1,300 | 1,300 | 1,000 | ND<500 | --- | 3.0 |
| 1/20/1998 | 46.79 | 3.40 | 25,000 | 2,200 ⁸ | --- | --- | 2.3 | 6,000 | 2,400 | 1,200 | 910 | ND | --- | 2.0 |
| 4/15/1998 | 44.54 | 5.65 | 26,000 | 2,400 | --- | --- | 8.6 | 5,200 | 2,500 | 1,100 | 1,400 | ND | --- | 3.4 |
| 7/28/1998 | 42.59 | 7.60 | 18,000 | 2,200 ⁸ | --- | --- | ND<5.0 | 3,800 | 1,200 | 870 | 720 | ND<2.5 | --- | 3.0 |
| 1/26/2000 | Well Not Found | | | | | | | | | | | | | |
| 5/3/2000 | 43.95 | 6.24 | 2,800 | ND<50 | ND<170 | --- | --- | 440 | 210 | 180 | 234 | ND<100 | --- | --- |
| 8/3/2000 | 40.31 | 9.88 | 14,000 | ND<50 | ND<170 | --- | --- | 1,800 | 560 | 770 | 580 | ND<350 | --- | 0.8 |
| 10/11/2000 | 39.69 | 10.50 | 13,000 | ND<50 | ND<170 | --- | --- | 1,900 | 290 | 760 | 356 | 14 | --- | 1.2 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THUJ16

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|----------------|----------------|-----------------|----------------|--|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-13 Continued | | | | | | | | | | | | | | |
| 1/4/2001 | 42.82 | 42.82 | 7.37 | 7,500 | 230 | ND<170 | --- | 620 | 350 | 320 | 294 | 4.7 | --- | --- |
| 4/12/2001 | 44.50 | 44.50 | 5.69 | 210 | ND<50 | ND<170 | --- | 34 | 2.7 | 3.8 | 7.58 | ND<0.50 | --- | 1.3 |
| 7/10/2001 | 40.27 | 40.27 | 9.92 | 6,100 | 150 | ND<170 | --- | 580 | 230 | 300 | 281 | ND<10 | ND<10-200 | 1.0 |
| 11/1/2001 | 40.44 | 40.44 | 9.75 | 3,100 | 77 | ND<170 | --- | 610 | 52 | 120 | 68 | ND<20 | ND<1-60 | --- |
| 12/10/2001 | 46.61 | 46.61 | 3.58 | ND<50 | ND<50 | ND<170 | --- | 0.93 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | --- |
| 3/28/2002 | 45.46 | 45.46 | 4.73 | ND<50 | ND<50 | ND<170 | --- | 2.2 | ND<0.50 | 0.51 | 0.75 | 1.4 | ND<1-20 | 1.0 |
| 6/27/2002 | 41.52 | 41.52 | 8.67 | 520 | ND<50 | ND<170 | --- | 50 | 15 | 35 | 22.7 | ND<1.0 | ND<1-20 | 0.66 |
| 9/11/2002 | 38.64 | 38.64 | 11.55 | 2,800 | 100 | ND<170 | --- | 320 | 49 | 180 | 71.1 | 2.2 | ND<1-20 | 2.22 |
| 12/9/2002 | Well destroyed | | | | | | | | | | | | | |
| MW-14 | | | | | | | | | | | | | | |
| | | 47.89 | | | | | | | | | | | | |
| 1/26/2000 | 38.00 | 38.00 | 9.89 | ND<50 | ND<50 | ND<500 | --- | 1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | 36.27 | 36.27 | 11.62 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | 33.44 | 33.44 | 14.45 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 10/11/2000 | 33.30 | 33.30 | 14.59 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 1/4/2001 | 33.55 | 33.55 | 14.34 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 4/12/2001 | 36.01 | 36.01 | 11.88 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 1.3 |
| 7/10/2001 | 33.32 | 33.32 | 14.57 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 11/1/2001 | Insufficient amount of water to sample | | | | | | | | | | | | | |
| 12/10/2001 | 33.34 | 33.34 | 14.55 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 3/28/2002 | 39.02 | 39.02 | 8.87 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 1.01 |
| 6/27/2002 | 33.32 | 33.32 | 14.57 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 9/11/2002 | 33.27 | 33.27 | 14.62 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 3/27/2003 | 42.11 | 42.11 | 5.78 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 3.4 |
| 9/23/2003 | 33.29 | 33.29 | 14.60 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/23/2004 | 37.28 | 37.28 | 10.61 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | 0.68 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-10 | --- |
| 9/23/2004 | monitoring well can not be located | | | | | | | | | | | | | |
| 3/30/2005 | 41.79 | 41.79 | 6.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/26/2005 | 37.61 | 37.61 | 10.28 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| MW-15 | | | | | | | | | | | | | | |
| | | 49.38 | | | | | | | | | | | | |
| 1/26/2000 | 42.26 | 42.26 | 7.02 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | 39.12 | 39.12 | 10.16 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | 35.74 | 35.74 | 13.54 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 10/11/2000 | Insufficient amount of water to sample | | | | | | | | | | | | | |
| 1/4/2001 | 35.03 | 35.03 | 14.25 | ND<50 | ND<50 | ND<170 | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 4/12/2001 | 40.42 | 40.42 | 8.86 | --- | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | --- | 1.2 |
| 7/10/2001 | 35.58 | 35.58 | 13.70 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 11/1/2001 | Insufficient amount of water to sample | | | | | | | | | | | | | |
| 12/10/2001 | 42.99 | 42.99 | 6.29 | ND<50 | ND<50 | 270 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 1.8 |
| 3/28/2002 | 41.43 | 41.43 | 7.85 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 1.62 |
| 6/27/2002 | 36.76 | 36.76 | 12.52 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | 3.1 |
| 9/11/2002 | 34.83 | 34.83 | 14.45 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- |
| 1/31/2003 | --- | --- | --- | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 4.6 |
| 3/26/2003 | 46.68 | 46.68 | 2.60 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 3.8 |
| 6/19/2003 | 37.88 | 37.88 | 11.40 | --- | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 4.2 |
| 9/24/2003 | 35.18 | 35.18 | 14.10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|----------------|----------------|-----------------|--|--|--|--|----------------------------|----------------|--------------------------|-------------------------------|
| MW-15 Continued | | | | | | | | | | | | | | |
| 12/18/2003 | 42.47 | 6.81 | ND<50 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | na |
| 3/23/2004 | 40.55 | 8.73 | ND<50 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-10 | --- |
| 6/29/2004 | 35.58 | 13.70 | --- | --- | --- | --- | Insufficient amount of water to sample | --- | --- | --- | --- |
| 9/23/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12/14/2004 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4/27/2005 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-16 | | | | | | | | | | | | | | |
| 1/26/2000 | 48.88 | 41.51 | 7.37 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 5/3/2000 | 36.77 | 12.11 | 24.66 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 8/3/2000 | 34.47 | 14.41 | 20.06 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 10/11/2000 | 34.43 | 14.45 | 20.08 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 1/4/2001 | 34.61 | 14.27 | 20.34 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 4/12/2001 | 38.33 | 10.55 | 27.78 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | --- | 1.1 |
| 7/10/2001 | 34.39 | 14.49 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 11/1/2001 | 34.39 | 14.49 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 12/10/2001 | 41.86 | 7.02 | 34.84 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 3/28/2002 | 40.48 | 8.40 | 32.08 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 0.80 |
| 6/27/2002 | 34.33 | 14.55 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 9/11/2002 | 34.26 | 14.62 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 1/31/2003 | 42.93 | 5.95 | 36.98 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 2.6 |
| 3/27/2003 | 43.20 | 5.68 | 37.52 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 2.55 |
| 6/19/2003 | 35.73 | 13.15 | 22.58 | --- | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 4.4 |
| 9/24/2003 | 34.29 | 14.59 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 12/18/2003 | 41.40 | 7.48 | 33.92 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | na |
| 3/23/2004 | 38.01 | 10.87 | 27.13 | 95 | ND<50 | ND<170 | ND<0.50 | 0.77 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-10 | --- |
| 6/29/2004 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 9/23/2004 | 34.38 | 14.50 | 20.10 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 12/14/2004 | 37.43 | 11.45 | 25.98 | 93 | ND<50 | --- | --- | 8.3 | 1.1 | 0.52 | 0.73 | ND<7.0 | Iron = 270 | --- |
| 4/27/2005 | 36.81 | 12.07 | 24.74 | ND<50 | ND<50 | --- | --- | 1.6 | 0.66 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| MW-17S | | | | | | | | | | | | | | |
| 10/1/2001 | 30.92 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11/1/2001 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 12/10/2001 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 3/28/2002 | 27.84 | 3.08 | 24.76 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 4.7 |
| 6/27/2002 | 27.94 | 2.98 | 24.96 | ND<50 | 720 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.50 | ND<1.0 | ND<1-20 | 2.49 |
| 9/11/2002 | 18.23 | 12.69 | 5.56 | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 3/27/2003 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 9/23/2003 | 28.25 | 2.67 | 25.58 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-20 | 4.6 |
| 12/18/2003 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 3/23/2004 | 27.18 | 3.74 | 24.44 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1-10 | --- |
| 9/22/2004 | --- | --- | --- | --- | --- | --- | --- | Insufficient amount of water to sample | Insufficient amount of water to sample | Insufficient amount of water to sample | --- | --- | --- | --- |
| 4/26/2005 | 27.45 | 3.47 | 23.98 | ND<50 | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|------------------------------------|-------------------------------|
| MW-17D | | | | | | | | | | | | | | |
| | 30.82 | | | | | | | | | | | | | |
| 10/1/2001 | | 14.38 | 16.44 | ND<50 | 120 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 11/1/2001 | | 14.42 | 16.40 | ND<50 | ND<50 | 820 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 12/10/2001 | | 23.09 | 7.73 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 6.4 |
| 3/28/2002 | | 21.79 | 9.03 | ND<50 | ND<50 | 1,800 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.18 |
| 6/27/2002 | | 16.62 | 14.20 | ND<50 | ND<50 | 310 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 9.9 |
| 9/11/2002 | | 14.45 | 16.37 | ND<50 | ND<50 | 360 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 3.46 |
| 3/27/2003 | | 23.25 | 7.57 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 4.7 |
| 9/23/2003 | | 15.32 | 15.50 | ND<50 | ND<50 | 1,400 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 1.48 |
| 3/23/2004 | | 21.26 | 9.56 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 3/30/2005 | | 14.85 | 15.97 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 4/26/2005 | | 23.34 | 7.48 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 22.49 | 8.33 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| MW-18 | | | | | | | | | | | | | | |
| | 30.82 | | | | | | | | | | | | | |
| 10/1/2001 | | 14.31 | 16.51 | 110 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 270 | --- |
| 11/1/2001 | | 12.93 | 17.89 | 130 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 340 | --- |
| 12/10/2001 | | -----Standing water----- | | | | | | | | | | | | |
| 3/28/2002 | | 26.22 | 4.6 | 140 | ND<50 | 360 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 190 | 0.84 |
| 6/27/2002 | | 16.04 | 14.78 | 110 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 200 | 2.6 |
| 9/11/2002 | | 13.57 | 17.25 | 120 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 230 | 3.41 |
| 3/27/2003 | | -----Standing water----- | | | | | | | | | | | | |
| 9/23/2003 | | 13.98 | 16.84 | 140 | ND<50 | 230 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 160 All others ND<1.0-20 | --- |
| 3/23/2004 | | 26.10 | 4.72 | 66 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | DIPE = 99 All others ND<1.0-10 | --- |
| 9/22/2004 | | 13.64 | 17.18 | 310 | ND<50 | ND<170 | --- | ND<0.50 | Well inaccessible | Well inaccessible | ND<0.50 | ND<3.0 | --- | --- |
| 3/30/2005 | | Well inaccessible | | | | | | | | | | | | |
| 4/26/2005 | | Well inaccessible | | | | | | | | | | | | |
| MW-19 | | | | | | | | | | | | | | |
| | 31.56 | | | | | | | | | | | | | |
| 10/1/2001 | | 13.23 | 18.33 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 11/1/2001 | | 13.50 | 18.06 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 12/10/2001 | | 10.24 | 21.32 | ND<50 | ND<50 | 660 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 1.5 |
| 3/28/2002 | | 18.07 | 13.49 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.53 |
| 6/27/2002 | | 13.62 | 17.94 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 5.9 |
| 9/11/2002 | | 13.21 | 18.35 | ND<50 | ND<50 | 710 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.97 |
| 1/31/2003 | | 28.16 | 3.40 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 6.7 |
| 3/27/2003 | | 29.59 | 1.97 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 4.71 |
| 6/19/2003 | | 15.70 | 15.86 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 8.3 |
| 9/24/2003 | | 13.59 | 17.97 | 79 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 12/18/2003 | | 19.23 | 12.33 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | na |
| 3/23/2004 | | 17.31 | 14.25 | 140 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 6/30/2004 | | 13.82 | 17.74 | ND<50 | ND<50 | 190 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 9/23/2004 | | 13.19 | 18.37 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 12/14/2004 | | 22.33 | 9.23 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 4/27/2005 | | 17.71 | 13.85 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | Iron = 200 --- | --- |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHhd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|--|--|--|-----------------------------|----------------|-----------------|-----------------|----------------|--|--|--|--|--|--|-------------------------------|
| MW-20 | | | | | | | | | | | | | | |
| | 30.69 | | | | | | | | | | | | | |
| 10/1/2001 | | 13.46 | 17.23 | ND<50 | 690 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 2.7 | ND<1.0-20 | --- |
| 11/1/2001 | | 13.25 | 17.44 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 3.0 | ND<1.0-20 | --- |
| 12/10/2001 | | 24.72 | 5.97 | ND<50 | 510 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2 |
| 3/28/2002 | | 26.47 | 4.22 | ND<50 | 380 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 1.73 |
| 6/27/2002 | | 15.41 | 15.28 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 2.8 | ND<1.0-20 | 2.8 |
| 9/11/2002 | | --- | --- | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 2.8 | ND<1.0-20 | 4.61 |
| 1/31/2003 | | 26.19 | 4.50 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 3.5 |
| 3/27/2003 | | 27.61 | 3.08 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.25 |
| 6/19/2003 | | 17.12 | 13.57 | ND<50 | 210 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 4.2 | ND<1.0-20 | 4.1 |
| 9/24/2003 | | 13.76 | 16.93 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 3.7 | ND<1.0-20 | --- |
| 12/18/2003 | | 25.65 | 5.04 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | na |
| 3/23/2004 | | 20.42 | 10.27 | 320 | ND<50 | 180 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 6/30/2004 | | 14.94 | 15.75 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 4.1 | ND<1.0-20 | --- |
| 9/23/2004 | | 13.15 | 17.54 | ND<50 | 180 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 4.6 | ND<1.0-20 | --- |
| 12/14/2004 | | 16.23 | 14.46 | ND<50 | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | Iron = 6600 | --- |
| 4/27/2005 | | 20.73 | 9.96 | ND<50 | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| MW-21 | | | | | | | | | | | | | | |
| | 50.99 | | | | | | | | | | | | | |
| 3/28/2002 | | 50.99 | 5.97 | 1,200 | 190 | ND<170 | --- | II | ND<0.50 | 1.0 | 0.80 | ND<1.0 | ND<1.0-20 | 0.94 |
| 6/27/2002 | | 45.02 | 8.79 | 840 | 170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.14 |
| 9/11/2002 | | Insufficient amount of water to sample | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/27/2003 | | 46.52 | 4.47 | 230 | 91 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 3.27 |
| 9/23/2003 | | 41.11 | 9.88 | 190 | 150 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 3/23/2004 | | 44.04 | 6.95 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 9/22/2004 | | Insufficient amount of water to sample | --- | --- | --- | --- | --- | Insufficient amount of water to sample | --- |
| 4/26/2005 | | 44.30 | 6.69 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.4 |
| MW-22 | | | | | | | | | | | | | | |
| | 50.52 | | | | | | | | | | | | | |
| 3/28/2002 | | --- | --- | ND<50 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6/27/2002 | | 41.73 | 8.79 | ND<50 | ND<170 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 1.59 |
| 9/11/2002 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/27/2003 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/23/2003 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3/23/2004 | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ----- monitoring well can not be located ----- | | | | | | | | | | | | | | |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629-02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHG (µg/L) | TPHD (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|--|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-23 | | | | | | | | | | | | | | |
| 1/31/2003 | 53.98 | 50.42 | 3.56 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 35 | TAME=18 All others ND | 3.32 |
| 3/25/2003 | --- | 49.66 | 4.32 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 36 | TAME=16 All others ND | 2.90 |
| 6/19/2003 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/24/2003 | --- | 44.71 | 9.27 | 97 | ND<50 | ND<170 | --- | ND<0.50 | 1.1 | ND<0.50 | 0.66 | ND<8.0 | TAME=16 All others ND | --- |
| 12/18/2003 | --- | 49.68 | 4.30 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 4.6 | TAME=16 All others ND | 0.82 |
| 3/23/2004 | --- | 48.03 | 5.95 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.39 |
| 6/29/2004 | --- | 46.63 | 7.35 | 77 | ND<50 | ND<170 | --- | 0.54 | 1.9 | 0.81 | 1.2 | ND<1.0 | ND<1.0-20 | 0.68 |
| 9/23/2004 | --- | 44.18 | 9.80 | --- | --- | --- | --- | Insufficient amount of water to sample | | --- | --- | --- | --- | --- |
| 12/14/2004 | --- | 48.56 | 5.42 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | ND<100 | --- |
| 4/27/2005 | --- | 48.08 | 5.90 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.58 |
| MW-24 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.40 | 50.83 | 3.57 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 3.7 | ND<1.0-20 | 2.55 |
| 3/25/2003 | --- | 51.03 | 3.37 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 8.8 | ND<1.0-20 | 2.87 |
| 6/19/2003 | --- | 47.84 | 6.56 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 5.8 | ND<1.0-20 | 4.2 |
| 9/24/2003 | --- | 45.19 | 9.21 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | 7.0 | ND<0.50 | ND<0.50 | 1.8 | ND<1.0-20 | --- |
| 12/18/2003 | --- | 50.76 | 3.64 | ND<50 | ND<50 | ND<170 | --- | 4.5 | ND<0.50 | ND<0.50 | ND<0.50 | 10.0 | ND<1.0-20 | --- |
| 3/23/2004 | --- | 48.93 | 5.47 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.61 |
| 6/29/2004 | --- | 48.61 | 5.79 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.78 |
| 9/23/2004 | --- | 44.93 | 9.47 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 12/14/2004 | --- | 48.82 | 5.58 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | ND<100 | --- |
| 4/27/2005 | --- | 48.82 | 5.58 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.41 |
| MW-25 | | | | | | | | | | | | | | |
| 1/31/2003 | 55.91 | 53.93 | 1.98 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.82 |
| 3/25/2003 | --- | 54.48 | 1.43 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.5 |
| 6/19/2003 | --- | 52.16 | 3.75 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 1.38 |
| 9/24/2003 | --- | 49.20 | 6.71 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.15 |
| 12/18/2003 | --- | 54.25 | 1.66 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.64 |
| 3/23/2004 | --- | 53.20 | 2.71 | 120 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.24 |
| 6/29/2004 | --- | 50.80 | 5.11 | 69 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.70 |
| 9/23/2004 | --- | 47.39 | 8.52 | 56 | ND<50 | --- | --- | ND<1.0 | ND<1.0 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.59 |
| 12/14/2004 | --- | 53.27 | 2.64 | 470 | ND<50 | --- | --- | 5.3 | 6.2 | ND<0.50 | ND<0.50 | ND<12 | Iron = 15,000 | 0.37 |
| 4/27/2005 | --- | 53.59 | 2.32 | 230 | ND<50 | --- | --- | ND<1.5 | ND<5.0 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.70 |
| MW-26 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.74 | 50.51 | 4.23 | ND<50 | ND<50 | ND<170 | --- | 0.98 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | TBA=30 All others ND | 4.68 |
| 2/10/2003 | --- | 50.90 | 3.84 | ND<50 | ND<50 | ND<170 | --- | 12 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.5 |
| 3/27/2003 | --- | 53.26 | 1.48 | 51 | ND<50 | ND<170 | --- | 5.4 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 3.24 |
| 9/23/2003 | --- | 45.43 | 9.31 | 690 | --- | --- | --- | 2.1 | 0.53 | 0.54 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 3/23/2004 | --- | 49.49 | 5.25 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.59 |
| 9/22/2004 | --- | 45.48 | 9.26 | ND<50 | ND<50 | 920 | --- | 1.3 | 0.65 | ND<0.50 | ND<0.50 | ND<3.0 | --- | --- |
| 4/26/2005 | --- | 49.83 | 4.91 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.59 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--|-------------------------------|
| MW-27 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.30 | 49.83 | 4.47 | 4,400 | 150 | ND<170 | --- | 900 | 10 | 0.61 | 29.3 | ND<10 | TBA=22 All others ND | 3.59 |
| 3/26/2003 | | 52.87 | 1.43 | 3,800 | 160 | ND<170 | --- | 1,100 | 8.2 | 25 | 14.2 | ND<10 | ND<1.0-20 | 2.85 |
| 6/19/2003 | | 48.98 | 5.32 | 12,000 | 280 | ND<170 | --- | 3,800 | 28 | 87 | 38.7 | ND<10 | TBA=25 All others ND | 1.41 |
| 9/24/2003 | | 48.11 | 6.19 | 11,000 | 270 | ND<170 | --- | 4,700 | 26 | 72 | 26.8 | ND<10 | ND<1.0-20 | 0.40 |
| 12/18/2003 | | 50.38 | 3.92 | 4,600 | 130 | ND<170 | --- | 3,100 | 15 | 42 | 12.9 | ND<10 | ND<1.0-20 | 0.64 |
| 3/23/2004 | | 50.38 | 3.92 | 6,800 | 160 | ND<170 | --- | 2,300 | 12 | 19 | 10.6 | ND<12 | ND<1.0-35 | 0.97 |
| 6/29/2004 | | 48.80 | 5.50 | 5,800 | 270 | ND<170 | --- | 2,600 | 18 | 32 | 16.8 | ND<8.0 | ND<1.0-30 | 0.41 |
| 7/20/2004 | | 48.07 | 6.23 | 2,700 | ND<50 | --- | --- | 810 | 17 | 12 | ND<5.0 | ND<3.0 | --- | 0.57 |
| 8/24/2004 | | 47.40 | 6.90 | 3,700 | 110 | --- | --- | 960 | 17 | 24 | 7.2 | ND<30 | --- | 1.38 |
| 9/23/2004 | | 46.47 | 7.83 | 2,000 | 130 | --- | --- | 280 | 15 | 11 | 6.0 | ND<40 | F-Hyde = 14 A-Hyde = 11 Cr = ND<10 | 2.15 |
| 10/21/2004 | | 48.43 | 5.87 | 1,100 | 89 | --- | --- | 170 | 8.2 | 16 | ND<6.0 | 10 | --- | 0.90 |
| 11/16/2004 | | 49.34 | 4.96 | 1,100 | 120 | --- | --- | 150 | ND<14 | 8.7 | 5.1 | ND<25 | --- | 0.55 |
| 12/14/2004 | | 49.03 | 5.27 | 1,100 | 100 | --- | --- | 170 | 8.2 | 14 | 3.2 | ND<20 | Iron = 14,000 | 0.45 |
| 1/11/2005 | | 48.52 | 5.78 | 1,300 | 98 | --- | --- | 310 | 7.6 | 9.9 | ND<6.0 | ND<25 | 16,000 | 0.40 |
| 2/15/2005 | | 49.65 | 4.65 | 990 | 91 | --- | --- | 60 | ND<10 | 7.4 | ND<5.0 | ND<20 | --- | 0.48 |
| 3/30/2005 | | 49.95 | 4.35 | 1,300 | 80 | --- | --- | 300 | 7.9 | 6.8 | 3.5 | ND<30 | --- | 0.49 |
| 4/27/2005 | | 49.80 | 4.50 | 1,100 | 92 | --- | --- | 250 | 5.7 | 8.2 | 2.5 | ND<20 | --- | 0.34 |
| MW-28 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.61 | 47.31 | 7.30 | 10,000 | 120 | ND<170 | --- | 4,800 | 14 | 30 | 61.9 | ND<10 | ND<1.0-20 | 4.16 |
| 3/26/2003 | | 53.04 | 1.57 | 13,000 | 470 | ND<170 | --- | 6,100 | 24 | 10 | 81.8 | ND<10 | ND<1.0-20 | 2.81 |
| 6/19/2003 | | 49.80 | 4.81 | 13,000 | 520 | ND<170 | --- | 9,700 | 29 | 56 | 45.5 | 6.8 | TBA=24 All others ND | 1.62 |
| 9/24/2003 | | 47.68 | 6.93 | 23,000 | 250 | ND<170 | --- | 11,000 | 33 | 49 | 41.6 | ND<12 | ND<1.0-20 | 0.45 |
| 12/18/2003 | | 52.13 | 2.48 | 21,000 | 470 | ND<170 | --- | 8,900 | 60 | 170 | 98.0 | ND<6 | ND<1.0-20 | --- |
| 3/23/2004 | | 50.54 | 4.07 | 18,000 | 150 | ND<170 | --- | 9,600 | 27 | 15 | 24 | ND<16 | ND<1.0-45 | 0.49 |
| 6/29/2004 | | 49.36 | 5.25 | 15,000 | 210 | ND<170 | --- | 7,600 | 48 | 61 | 46.2 | ND<7.0 | ND<1.0-20 | 0.43 |
| 7/20/2004 | | 48.16 | 6.45 | 10,000 | 76 | --- | --- | 4,800 | 28 | 31 | 15 | ND<30 | --- | 0.63 |
| 8/24/2004 | | 46.88 | 7.73 | 15,000 | 180 | --- | --- | 6,100 | 43 | 46 | 21 | ND<100 | --- | 1.67 |
| 9/23/2004 | | 45.87 | 8.74 | 9,400 | 82 | --- | --- | 4,700 | 34 | 40 | 18 | ND<80 | F-Hyde = 11 A-Hyde = ND<5.0 Cr = ND<10 | --- |
| 10/21/2004 | | 49.43 | 5.18 | 130 | ND<50 | --- | --- | 53 | ND<0.50 | 0.90 | 0.61 | ND<3.0 | --- | 1.45 |
| 11/16/2004 | | 50.54 | 4.07 | 980 | 71 | --- | --- | 500 | 3.6 | 4.4 | 3.2 | ND<13 | --- | 0.70 |
| 12/14/2004 | | 51.71 | 2.90 | 1,000 | 70 | --- | --- | 350 | 5.1 | 7.0 | 3.8 | ND<20 | Iron = 3,200 | 0.45 |
| 1/11/2005 | | 53.05 | 1.56 | 760 | 84 | --- | --- | 150 | 4.9 | 7.6 | 3.3 | ND<20 | Iron = 2,900 | 0.39 |
| 2/15/2005 | | 52.45 | 2.16 | 640 | 75 | --- | --- | 94 | 3.3 | 6.2 | 2.4 | ND<15 | --- | 0.46 |
| 3/30/2005 | | 51.39 | 3.22 | 780 | 81 | --- | --- | 100 | 4.2 | 8.5 | 1.7 | ND<20 | --- | 0.51 |
| 4/27/2005 | | 51.02 | 3.59 | 620 | 97 | --- | --- | 58 | 2.9 | 6.7 | 0.84 | ND<10 | --- | 0.89 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Fernier Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--|-------------------------------|
| MW-29 | | | | | | | | | | | | | | |
| 1/31/2003 | 55.84 | 54.84 | 1.00 | 130 | 130 | ND<170 | --- | 18 | 1.0 | 4.1 | 3.65 | ND<1.0 | ND<1.0-20 | 2.8 |
| 3/25/2003 | | 54.70 | 1.14 | 90 | ND<50 | ND<170 | --- | 4.8 | ND<0.50 | 6.2 | 1.4 | ND<1.0 | ND<1.0-20 | 3.89 |
| 6/19/2003 | | 52.32 | 3.52 | 130 | 59 | ND<170 | --- | 8.2 | ND<0.50 | 6.9 | ND<0.50 | ND<1.0 | ND<1.0-20 | 4.7 |
| 9/24/2003 | | 49.25 | 6.59 | 2,400 | 140 | ND<170 | --- | 840 | 25 | 120 | 14.2 | ND<1.0 | ND<1.0-20 | 0.54 |
| 12/18/2003 | | 54.32 | 1.52 | 4,000 | ND<50 | ND<170 | --- | 110 | 3.4 | 15 | 5.1 | ND<1.0 | ND<1.0-20 | 0.47 |
| 3/23/2004 | | 53.39 | 2.45 | 63 | ND<50 | ND<170 | --- | 2.4 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.16 |
| 6/29/2004 | | 51.09 | 4.75 | 230 | ND<50 | ND<170 | --- | 80 | 1.4 | 3.4 | 0.79 | ND<3.0 | --- | 1.59 |
| 9/23/2004 | | 48.60 | 7.24 | 3,400 | 84 | --- | --- | 1,900 | 29 | 16 | 20 | ND<35 | --- | 0.51 |
| 12/14/2004 | | 53.03 | 2.81 | ND<49 | ND<50 | --- | --- | 0.69 | ND<0.50 | ND<0.50 | ND<0.50 | ND<30 | ND<100 | 4.05 |
| 4/27/2005 | | 53.64 | 2.20 | ND<50 | 210 | --- | --- | 1.1 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.99 |
| MW-30 | | | | | | | | | | | | | | |
| 1/31/2003 | | 50.99 | 4.10 | 48,000 | 570 | ND<170 | --- | 13,000 | 210 | 2,000 | 1,810 | ND<1.0 | ND<1.0-20 | 2.6 |
| 3/26/2003 | | 54.77 | 0.32 | 33,000 | 430 | ND<170 | --- | 13,000 | 150 | 1,200 | 714 | ND<50 | ND<50-1,000 | 2.69 |
| 6/19/2003 | | 51.68 | 3.41 | 29,000 | 710 | ND<170 | --- | 12,000 | 150 | 1,300 | 753 | ND<4.0 | ND<1.0-20 | 2.2 |
| 9/24/2003 | | 48.08 | 7.01 | 34,000 | 550 | ND<170 | --- | 14,000 | 150 | 540 | 416 | ND<50 | ND<50-1,000 | 1.14 |
| 12/18/2003 | | 53.56 | 1.53 | 39,000 | 220 | ND<170 | --- | 16,000 | 140 | 790 | 523 | ND<50 | ND<50-1,000 | 0.52 |
| 3/23/2004 | | 52.68 | 2.41 | 23,000 | 170 | ND<170 | --- | 7,600 | 110 | 830 | 409 | ND<4.0 | ND<1.0 | 0.22 |
| 6/29/2004 | | 50.47 | 4.62 | 29,000 | 860 | ND<170 | --- | 10,000 | 250 | 880 | 507 | ND<360 | --- | 0.79 |
| 7/20/2004 | | 49.32 | 5.77 | 31,000 | 280 | --- | --- | 9,400 | 230 | 840 | 437 | ND<300 | --- | 0.57 |
| 8/24/2004 | | 47.62 | 7.47 | 33,000 | 310 | --- | --- | 10,000 | 190 | 630 | 273 | ND<300 | --- | 1.30 |
| 9/23/2004 | | 46.60 | 8.49 | 20,000 | 370 | --- | --- | 6,200 | 150 | 470 | 576 | ND<300 | F-Hyde = 59 A-Hyde = 32 Cr = ND<10 | --- |
| 10/21/2004 | | 50.57 | 4.52 | 31,000 | 590 | --- | --- | 9,100 | 300 | 1,400 | 870 | ND<300 | --- | 0.32 |
| 11/16/2004 | | 51.04 | 4.05 | 30,000 | 740 | --- | --- | 9,200 | 320 | 2,000 | 930 | ND<300 | --- | 0.58 |
| 12/14/2004 | | 52.41 | 2.68 | 26,000 | 840 | --- | --- | 7,300 | 270 | 1,300 | 810 | ND<300 | Iron = 21,000 | --- |
| 1/11/2005 | | 54.36 | 0.73 | 25,000 | 600 | --- | --- | 8,100 | 310 | 1,200 | 920 | ND<300 | Iron = 17,000 | 0.22 |
| 2/15/2005 | | 53.84 | 1.25 | 22,000 | 770 | --- | --- | 6,100 | 200 | 890 | 670 | ND<300 | --- | 0.41 |
| 3/30/2005 | | 54.52 | 0.57 | 18,000 | 580 | --- | --- | 5,600 | 180 | 800 | 590 | ND<300 | --- | 0.43 |
| 4/27/2005 | | 52.94 | 2.15 | 19,000 | 530 | --- | --- | 4,500 | 180 | 680 | 532 | ND<300 | --- | 0.19 |
| MW-31 | | | | | | | | | | | | | | |
| 1/31/2003 | | 49.96 | 4.65 | 3,800 | 650 | 300 | --- | 1,000 | 9.0 | 2.3 | 3.9 | ND<1.0 | ND<1.0-20 | 5.05 |
| 3/27/2003 | | 52.21 | 2.40 | 3,200 | 1,100 | 500 | --- | 910 | 9.7 | 3.2 | 3.33 | ND<1.0 | ND<1.0-20 | 3.75 |
| 9/23/2003 | | 44.78 | 9.83 | 7,900 | 270 | ND<170 | --- | 800 | 9.4 | 3.3 | 5.5 | ND<1.0 | ND<1.0-20 | 0.0 |
| 3/23/2004 | | 49.27 | 5.34 | 2,700 | 210 | ND<170 | --- | 840 | 6.7 | ND<0.50 | 4.5 | ND<1.0 | ND<1.0-20 | 0.55 |
| 9/22/2004 | | 42.89 | 11.72 | 3,200 | 190 | ND<170 | --- | 940 | 24 | 6.9 | 7.5 | ND<30 | --- | 0.30 |
| 3/30/2005 | | 52.49 | 2.12 | 1,100 | 82 | ND<170 | --- | 240 | ND<20 | ND<5.0 | ND<5.0 | ND<8.0 | --- | 0.44 |
| 4/26/2005 | | 49.65 | 4.96 | 1,000 | 83 | --- | --- | 270 | 7.9 | ND<5.0 | ND<5.0 | ND<7.0 | --- | 0.49 |
| MW-32 | | | | | | | | | | | | | | |
| 1/31/2003 | | 47.67 | 6.96 | 4,800 | 91 | ND<170 | --- | 1,500 | 12 | 1.6 | 5.2 | ND<1.0 | ND<1.0-20 | 4.38 |
| 3/27/2003 | | 52.21 | 2.42 | 2,900 | 110 | ND<170 | --- | 930 | 9.3 | 1.0 | 2.8 | ND<1.0 | ND<1.0-20 | 2.74 |
| 9/23/2003 | | 44.78 | 9.85 | 3,500 | 120 | 180 | --- | 620 | 7.0 | 3.46 | 3.46 | ND<1.0 | ND<1.0-20 | 0.00 |
| 3/23/2004 | | 49.26 | 5.37 | 1,100 | 53 | ND<170 | --- | 430 | 2.3 | 0.70 | 0.51 | ND<1.0 | ND<1.0-20 | 0.78 |
| 9/22/2004 | | 41.95 | 12.68 | 1,400 | 72 | ND<170 | --- | 450 | ND<15 | 4.0 | ND<12.5 | ND<10 | --- | 0.30 |
| 3/30/2005 | | 52.14 | 2.49 | 2,000 | 160 | ND<170 | --- | 680 | 13.0 | ND<10 | ND<15.0 | ND<20 | --- | 0.32 |
| 4/26/2005 | | 50.34 | 4.29 | 2,400 | 150 | --- | --- | 630 | 15 | ND<12 | ND<12 | ND<20 | --- | 0.57 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRAWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|----------------------|--|--|-----------------------------|----------------|----------------|-----------------|----------------|-------------------|-------------------|------------------------|----------------------------|----------------|---|-------------------------------|
| MW-33 | | | | | | | | | | | | | | |
| 1/31/2003 | 55.79 | 51.24 | 4.55 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 5.0 |
| 3/25/2003 | | 54.39 | 1.40 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 2.99 |
| 6/19/2003 | | 52.16 | 3.63 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.00 |
| 9/24/2003 | | 49.20 | 6.59 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | 0.00 |
| 12/18/2003 | | 54.24 | 1.55 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| 3/23/2004 | | 53.21 | 2.58 | 88 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0 | 0.21 |
| 6/29/2004 | | 50.78 | 5.01 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 0.63 |
| 9/23/2004 | | 47.36 | 8.43 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.26 |
| 12/14/2004 | | 53.46 | 2.33 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | Iron = 1,300 | 0.41 |
| 4/27/2005 | | 53.56 | 2.23 | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<3.0 | --- | 0.62 |
| MW-34 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.07 | 49.07 | 5.00 | 15,000 | 120 | ND<170 | --- | 690 | 970 | 110 | 1,090 | ND<25 | TAME=22 All others ND | 4.3 |
| 3/25/2003 | | 49.02 | 5.05 | 14,000 | 190 | ND<170 | --- | 380 | 580 | 440 | 730 | ND<40 | TAME=10 All others ND | 3.41 |
| 6/19/2003 | | 46.17 | 7.90 | 4,500 | 320 | ND<170 | --- | 300 | 200 | 260 | 242 | ND<40 | TAME=9.1 All others ND | 3.6 |
| 9/24/2003 | | 42.40 | 11.67 | 8,200 | 360 | ND<170 | --- | 450 | 76 | 360 | 197 | ND<16 | TAME=2.5 All others ND | 1.08 |
| 12/18/2003 | | 48.56 | 5.51 | 9,100 | 200 | ND<170 | --- | 400 | 320 | 380 | 350 | ND<10 | TAME=1.7 All others ND | 0.62 |
| 3/23/2004 | | 47.18 | 6.89 | 9,100 | 240 | ND<170 | --- | 460 | 230 | 400 | 295 | ND<12 | TAME=1.7 All others ND<1.0-10 | 0.92 |
| 6/29/2004 | | 46.62 | 7.45 | 11,000 | 530 | ND<170 | --- | 540 | 200 | 640 | 505 | ND<300 | --- | 0.56 |
| 7/20/2004 | | 43.54 | 10.53 | 9,100 | 230 | --- | --- | 490 | 120 | 380 | 220 | ND<300 | --- | 0.57 |
| 8/24/2004 | | 42.35 | 11.72 | 11,000 | 320 | --- | --- | 490 | 84 | 390 | 248 | ND<400 | --- | 1.97 |
| 9/23/2004 | | 41.79 | 12.28 | 7,700 | 250 | --- | --- | 390 | 63 | 200 | 118 | ND<350 | F-Hyde = 10 A-Hyde = 8.5 Ct = ND<10 | 0.96 |
| 10/21/2004 | | 46.53 | 7.54 | 8,200 | 260 | --- | --- | 260 | 99 | 160 | 410 | ND<300 | --- | 0.59 |
| 11/16/2004 | | 47.82 | 6.25 | 8,500 | 340 | --- | --- | 250 | 110 | 170 | 438 | ND<300 | --- | 0.48 |
| 12/14/2004 | | 47.58 | 6.49 | 4,100 | 260 | --- | --- | 160 | 73 | 130 | 200 | ND<170 | Iron = 3,500 | --- |
| 1/11/2005 | | 51.26 | 2.81 | 5,300 | 380 | --- | --- | 170 | 69 | 130 | 295 | ND<180 | Iron = 3,900 | 0.39 |
| 2/15/2005 | | 48.61 | 5.46 | 3,400 | 310 | --- | --- | 120 | 39 | 120 | 167 | ND<100 | --- | 0.37 |
| 3/30/2005 | | 51.43 | 2.64 | 5,500 | 190 | --- | --- | 95 | 58 | 120 | 255 | ND<180 | --- | 0.54 |
| 4/27/2005 | | 47.38 | 6.69 | 4,200 | 290 | --- | --- | 74 | 41 | 110 | 179 | ND<100 | --- | 0.51 |
| MW-35 | | | | | | | | | | | | | | |
| 1/31/2003 | 54.46 | 50.01 | 4.45 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 13 | TAME=2.1 All others ND | 4.6 |
| 3/25/2003 | | 50.48 | 3.98 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 10 | TAME=1.5 All others ND | 2.71 |
| 6/19/2003 | | 47.64 | 6.82 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 15 | TAME=2.1 All others ND | 3.6 |
| 9/24/2003 | | 44.19 | 10.27 | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 13 | TAME=2.1 All others ND | 0.00 |
| 12/18/2003 | | 50.39 | 4.07 | ND<50 | ND<50 | ND<170 | --- | 1.2 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | TAME=1.9 All others ND | --- |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRAWQCB Case No. 17HU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|---------------------|------------------------|----------------------------|----------------|--|-------------------------------|
| MW-35 Continued | | | | | | | | | | | | | | |
| 3/23/2004 | 48.68 | 5.78 | | 84 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 14 | TAME=2.1 All others ND<1.0-10 | 0.19 |
| 6/29/2004 | 48.28 | 6.18 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 12 | --- | 0.54 |
| 9/23/2004 | 43.52 | 10.94 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 12 | --- | 0.32 |
| 12/14/2004 | 49.21 | 5.25 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | Iron = 3,600 | --- |
| 4/27/2005 | 48.45 | 6.01 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 10 | --- | 0.33 |
| MW-36 | | | | | | | | | | | | | | |
| 1/31/2003 | 40.25 | 14.25 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 9.8 | TAME=1.9 All others ND | 3.71 |
| 3/25/2003 | 50.95 | 3.55 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 5.9 | ND<1.0-20 | 2.28 |
| 6/19/2003 | 47.58 | 6.92 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 9.5 | ND<1.0-20 | 0.56 |
| 9/24/2003 | 44.19 | 10.31 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 9.5 | TAME=1.6 All others ND | 0.00 |
| 12/18/2003 | 50.43 | 4.07 | | ND<50 | ND<50 | ND<170 | --- | 2.3 | ND<0.50 | ND<0.50 | ND<0.50 | 5.2 | ND<1.0-20 | --- |
| 3/23/2004 | 48.76 | 5.74 | | 86 | ND<50 | ND<170 | --- | 0.89 | ND<0.50 | 0.53 | ND<0.50 | 7.0 | ND<1-10 | 0.58 |
| 6/29/2004 | 48.21 | 6.29 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 6.0 | --- | 0.68 |
| 9/23/2004 | 43.01 | 11.49 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | --- | 0.31 |
| 12/14/2004 | 49.11 | 5.39 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 7.7 | Iron = 1,300 | --- |
| 4/27/2005 | 48.70 | 5.80 | | ND<50 | ND<50 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 5.8 | --- | 0.38 |
| MW-37 | | | | | | | | | | | | | | |
| 1/31/2003 | 44.57 | 11.28 | | 1,100 | 51 | ND<170 | --- | 74 | 3.3 | 18 | 39.8 | ND<1.0 | ND<1.0-20 | 5.56 |
| 3/25/2003 | 53.48 | 2.37 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 1.6 | ND<1.0-20 | 2.78 |
| 6/19/2003 | 51.90 | 3.95 | | --- | --- | --- | --- | --- | No Sample Collected | --- | --- | --- | --- | --- |
| 9/24/2003 | 48.72 | 7.13 | | 420 | ND<50 | ND<170 | --- | 11 | 0.53 | 4.8 | 1.8 | ND<6.0 | ND<1.0-20 | 0.33 |
| 12/18/2003 | 53.71 | 2.14 | | 92 | ND<50 | ND<170 | --- | 2.9 | ND<0.50 | 0.89 | 0.80 | 3.4 | ND<1.0-20 | 0.80 |
| 3/23/2004 | 52.97 | 2.88 | | 120 | ND<50 | 180 | --- | 2.8 | ND<0.50 | 0.98 | 0.63 | 4.3 | ND<1.0-20 | 0.46 |
| 6/29/2004 | 51.40 | 4.45 | | ND<50 | ND<50 | ND<170 | --- | 3.4 | ND<0.50 | ND<0.50 | ND<0.50 | ND<13 | ND<1-10 | 0.58 |
| 9/23/2004 | 46.68 | 9.17 | | ND<50 | ND<50 | --- | --- | 1.5 | ND<0.50 | ND<0.50 | ND<0.50 | ND<10 | --- | 0.16 |
| 12/14/2004 | 53.70 | 2.15 | | ND<50 | ND<50 | --- | --- | 0.88 | ND<0.50 | ND<0.50 | ND<0.50 | 5.1 | ND<100 | 0.45 |
| 4/27/2005 | 53.21 | 2.64 | | ND<50 | ND<50 | --- | --- | 0.82 | ND<0.50 | ND<0.50 | ND<0.50 | 5.2 | --- | 0.66 |
| MW-38 | | | | | | | | | | | | | | |
| 1/31/2003 | 53.99 | 1.82 | | 7,100 | 280 | ND<170 | --- | 2,100 | 41 | 180 | 134 | ND<1.0 | ND<1.0-20 | 3.40 |
| 3/25/2003 | 54.10 | 1.71 | | 1,300 | 79 | ND<170 | --- | 99 | ND<2.5 | ND<2.5 | 25.5 | ND<20 | ND<5.0-100 | 2.25 |
| 6/19/2003 | 51.82 | 3.99 | | 3,000 | 160 | ND<170 | --- | 1,300 | 16 | 37 | 39.4 | 12 | TBA=32 All others ND | 3.8 |
| 9/24/2003 | 48.56 | 7.25 | | 680 | 62 | ND<170 | --- | 130 | 2.1 | 7.0 | 3.52 | 11 | ND<1.0-20 | 0.31 |
| 12/18/2003 | 53.81 | 2.00 | | 980 | ND<50 | ND<170 | --- | 330 | 6.5 | 28.0 | 12.10 | 11 | ND<1.0-20 | --- |
| 3/23/2004 | 52.86 | 2.95 | | 640 | ND<50 | ND<170 | --- | 150 | 2.7 | 9.9 | 5.1 | 12 | ND<1.0-20 | 0.40 |
| 6/29/2004 | 50.67 | 5.14 | | 140 | ND<50 | ND<170 | --- | 21 | ND<1.8 | 0.70 | 0.70 | 14 | ND<1.0-26 | 0.89 |
| 7/20/2004 | 49.48 | 6.33 | | 270 | 56 | --- | --- | 40 | ND<3.0 | 1.4 | 0.74 | 14 | --- | 0.64 |
| 8/24/2004 | 47.90 | 7.91 | | 94 | ND<50 | --- | --- | 10 | ND<1.0 | 0.66 | 0.50 | 11 | --- | 3.28 |
| 9/23/2004 | 46.55 | 9.26 | | ND<50 | ND<50 | --- | --- | 1.6 | ND<0.50 | ND<0.50 | ND<0.50 | 10 | F-Hyde = ND<5.0 A-Hyde = ND<5.0 Cr = ND<10 | 0.85 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
400 Eighth Street, Fortuna
LACO No. 4629.0203; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|--|----------------|-----------------|----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--------------------------|-------------------------------|
| MW-38 Continued | | | | | | | | | | | | | | |
| 10/21/2004 | 49.19 | 6.62 | | 83 | ND<50 | --- | --- | 11 | ND<1.0 | ND<0.50 | 0.50 | 12 | --- | 0.55 |
| 11/16/2004 | 50.68 | 5.13 | | 82 | ND<50 | --- | --- | 12 | 0.60 | ND<0.50 | 0.58 | 11 | --- | 2.87 |
| 12/14/2004 | 52.54 | 3.27 | | 72 | ND<50 | --- | --- | 13 | 0.54 | ND<0.50 | ND<0.50 | 11 | Iron = 150 | 2.78 |
| 1/11/2005 | 54.52 | 1.29 | | 270 | ND<50 | --- | --- | 80 | 2.3 | 2.1 | 1.5 | 17 | Iron = 210 | 1.12 |
| 2/15/2005 | 53.97 | 1.84 | | 250 | ND<50 | --- | --- | 47 | 2.1 | 2.0 | 2.0 | 12 | --- | 0.38 |
| 3/30/2005 | 54.65 | 1.16 | | 200 | ND<50 | --- | --- | 28 | 1.5 | 1.3 | 1.2 | 14 | --- | 0.66 |
| 4/27/2005 | 53.01 | 2.80 | | 100 | ND<50 | --- | --- | 19 | 0.61 | ND<0.50 | ND<0.50 | 11 | --- | 0.49 |
| MW-39 | | | | | | | | | | | | | | |
| | 55.24 | | | | | | | | | | | | | |
| 1/31/2003 | 41.37 | 13.87 | | D/d not sample, bailer dropped into well | | | | | | | | | | |
| 2/10/2003 | 44.34 | 10.90 | | 760 | 53 | ND<170 | --- | 40 | 0.53 | 2.9 | 38.7 | 17 | ND<1.0-20 | 4.79 |
| 3/26/2003 | 50.08 | 5.16 | | 350 | ND<50 | ND<170 | --- | 21 | ND<0.50 | ND<0.50 | 9.8 | 12 | ND<1.0-20 | 3.5 |
| 6/19/2003 | 51.24 | 4.00 | | 1,600 | ND<50 | ND<170 | --- | 22 | ND<0.50 | 1.8 | ND<0.50 | 16 | ND<1.0-20 | 4.08 |
| 9/24/2003 | 47.37 | 7.87 | | 890 | ND<50 | ND<170 | --- | 9.3 | ND<0.50 | 1.7 | 0.72 | 12 | ND<1.0-20 | --- |
| 12/18/2003 | 53.21 | 2.03 | | 140 | ND<50 | 310 | --- | 17.0 | ND<0.50 | 1.4 | 0.88 | 13 | ND<1.0-20 | 0.52 |
| 3/23/2004 | 52.20 | 3.04 | | 170 | ND<50 | 170 | --- | 4.7 | ND<0.50 | 0.95 | 0.56 | 18 | ND<1.0-20 | 0.85 |
| 6/29/2004 | 50.14 | 5.10 | | 57 | ND<50 | ND<170 | --- | 7.9 | ND<0.50 | 0.83 | 0.88 | 17 | --- | 0.29 |
| 9/23/2004 | 46.56 | 8.68 | | ND<50 | ND<50 | --- | --- | 4.3 | ND<0.50 | 0.83 | 0.62 | 14 | --- | 0.14 |
| 12/14/2004 | 51.39 | 3.85 | | ND<50 | ND<50 | --- | --- | 1.6 | ND<0.50 | 0.51 | ND<0.50 | 13 | Iron = 10,000 | 0.51 |
| 4/27/2005 | 53.06 | 2.18 | | ND<50 | 63 | --- | --- | 0.95 | ND<0.50 | ND<0.50 | ND<0.50 | 14 | --- | 0.33 |
| MW-40 | | | | | | | | | | | | | | |
| | 55.17 | | | | | | | | | | | | | |
| 1/31/2003 | 43.75 | 11.42 | | 120 | 92 | ND<170 | --- | 1.4 | ND<0.50 | ND<0.50 | ND<0.50 | 21 | ND<1.0-20 | 4.51 |
| 3/26/2003 | 53.59 | 1.58 | | ND<50 | 77 | ND<170 | --- | 7.8 | ND<0.50 | 0.71 | ND<0.50 | 16 | ND<1.0-20 | 3.69 |
| 6/19/2003 | 51.36 | 3.81 | | 720 | ND<50 | ND<170 | --- | 110 | ND<0.50 | 2.3 | 0.63 | 27 | ND<1.0-20 | --- |
| 9/24/2003 | 47.73 | 7.44 | | 170 | ND<50 | ND<170 | --- | 60 | ND<0.50 | ND<0.50 | ND<0.50 | 20 | ND<1.0-20 | 0.25 |
| 12/18/2003 | 52.45 | 2.72 | | 150 | ND<50 | ND<170 | --- | 34 | ND<0.50 | 1.4 | 1.0 | 15 | ND<1.0-20 | 0.83 |
| 3/23/2004 | 52.35 | 2.82 | | 120 | ND<50 | ND<170 | --- | 6.8 | ND<0.50 | ND<0.50 | ND<0.50 | 20 | ND<1.0-46 | 0.84 |
| 6/29/2004 | 48.77 | 6.40 | | 74 | ND<50 | ND<170 | --- | 17 | ND<0.50 | 1.4 | ND<3.7 | 19 | --- | 0.31 |
| 9/23/2004 | 46.27 | 8.90 | | ND<50 | ND<50 | --- | --- | 8.3 | ND<0.50 | ND<0.50 | ND<0.50 | 14 | --- | 1.10 |
| 12/14/2004 | 50.95 | 4.22 | | ND<50 | ND<50 | --- | --- | 0.76 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | Iron = 16,000 | 0.81 |
| 4/27/2005 | 52.12 | 3.05 | | ND<50 | ND<50 | --- | --- | 0.51 | ND<0.50 | ND<0.50 | ND<0.50 | 11 | --- | 0.36 |
| MW-41 | | | | | | | | | | | | | | |
| | 54.38 | | | | | | | | | | | | | |
| 2/10/2003 | 50.98 | 3.40 | | ND<50 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 6.8 | ND<1.0-20 | 3.2 |
| 3/26/2003 | 53.08 | 1.30 | | ND<50 | ND<50 | ND<170 | --- | 2.2 | ND<0.50 | ND<0.50 | ND<0.50 | 4.7 | ND<1.0-20 | 3.51 |
| 6/19/2003 | 49.80 | 4.58 | | 120 | ND<50 | ND<170 | --- | 38 | ND<0.50 | ND<0.50 | ND<0.50 | 10 | TBA=22 | 4.48 |
| 9/24/2003 | 46.82 | 7.56 | | 720 | ND<50 | 220 | --- | 5.6 | ND<0.50 | ND<0.50 | ND<0.50 | 5.2 | All others ND | 0.28 |
| 12/18/2003 | 51.87 | 2.51 | | 600 | ND<50 | ND<170 | --- | 4.5 | ND<0.50 | ND<0.50 | ND<0.50 | 4.3 | ND<1.0-20 | 0.59 |
| 3/23/2004 | 50.46 | 3.92 | | 230 | ND<50 | ND<170 | --- | 8.0 | ND<0.50 | ND<0.50 | ND<0.50 | 6.8 | ND<1.0-20 | 0.80 |
| 6/29/2004 | 49.57 | 4.81 | | ND<50 | ND<50 | ND<170 | --- | 6.8 | ND<0.50 | ND<0.50 | ND<1.4 | 8.2 | ND<1.0-20 | 0.50 |
| 9/23/2004 | 45.79 | 8.59 | | ND<50 | ND<50 | --- | --- | 3.7 | ND<0.50 | ND<0.50 | ND<2.0 | ND<10 | --- | 1.39 |
| 12/14/2004 | 51.00 | 3.38 | | ND<50 | ND<50 | --- | --- | 1.6 | ND<0.50 | ND<0.50 | ND<5.0 | 5.5 | Iron = 7,700 | 0.45 |
| 4/27/2005 | 50.60 | 3.78 | | ND<50 | ND<50 | --- | --- | 0.95 | ND<0.50 | ND<0.50 | ND<0.50 | 5.9 | --- | 0.30 |
| MW-42 | | | | | | | | | | | | | | |
| | 54.37 | | | | | | | | | | | | | |
| 1/31/2003 | 51.72 | 2.65 | | 140 | ND<50 | ND<170 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 7.9 | ND<1.0-20 | 4.6 |
| 3/26/2003 | 52.94 | 1.43 | | ND<50 | 72 | ND<170 | --- | 0.81 | ND<0.50 | ND<0.50 | ND<0.50 | 5.4 | ND<1.0-20 | 3.16 |
| 6/19/2003 | 49.80 | 4.57 | | 700 | ND<50 | ND<170 | --- | 230 | ND<0.50 | ND<0.50 | ND<0.50 | 7.8 | TBA=41 | 4.17 |
| | | | | | | | | | | | | | All others ND | |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHr (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|------------------------|--|--|-----------------------------|----------------|----------------|-----------------|----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--|-------------------------------|
| MW-42 Continued | | | | | | | | | | | | | | |
| 9/24/2003 | 46.84 | 7.53 | | 480 | ND<50 | ND<170 | --- | 230 | 0.75 | 0.64 | ND<0.50 | 6.5 | TBA=31 All others ND | 0.43 |
| 12/18/2003 | 51.96 | 2.41 | | 230 | ND<50 | ND<170 | --- | 80 | 0.67 | ND<0.50 | ND<0.50 | 6.2 | ND<1.0-20 | --- |
| 3/23/2004 | 50.46 | 3.91 | | 300 | ND<50 | ND<170 | --- | 62 | 0.54 | ND<0.50 | ND<0.50 | 7.2 | ND<1.0-40 | 0.68 |
| 6/29/2004 | 49.54 | 4.83 | | 240 | ND<50 | ND<170 | --- | 51 | ND<1.8 | ND<2.0 | ND<1.5 | ND<20 | --- | 0.41 |
| 9/23/2004 | 46.11 | 8.26 | | 150 | ND<50 | --- | --- | 19 | ND<0.50 | ND<2.0 | ND<1.5 | ND<20 | --- | 1.40 |
| 12/14/2004 | 51.00 | 3.37 | | 66 | ND<50 | --- | --- | 3.2 | ND<0.50 | ND<0.50 | ND<0.50-1.5 | ND<12 | Iron = 21,000 | 0.43 |
| 4/27/2005 | 50.72 | 3.65 | | 58 | ND<50 | --- | --- | 1.5 | ND<0.50 | ND<0.50 | ND<0.50-1.0 | 5.6 | --- | 0.33 |
| MW-43 | | | | | | | | | | | | | | |
| 54.61 | | | | | | | | | | | | | | |
| 2/10/2003 | 50.71 | 3.90 | | 43,000 | 98 | 260 | --- | 17,000 | 3.3 | ND<0.50 | 37 | ND<1.0 | TBA=64 All others ND | 2.9 |
| 3/26/2003 | 52.86 | 1.75 | | 44,000 | 65 | 400 | --- | 11,000 | 2.3 | 2.0 | 25.3 | ND<20 | TBA=29 All others ND | 2.79 |
| 6/19/2003 | 50.64 | 3.97 | | 17,000 | ND<50 | ND<170 | --- | 11,000 | 1.7 | 4.9 | 16.8 | ND<30 | TBA=71 All others ND | --- |
| 9/24/2003 | 46.80 | 7.81 | | 3,300 | ND<50 | ND<170 | --- | 4,000 | 1.3 | 2.9 | 2.9 | 9.4 | TBA=42 All others ND | 1.46 |
| 12/18/2003 | 52.00 | 2.61 | | 1,500 | 85 | ND<170 | --- | 230 | ND<0.50 | 1.7 | 1.2 | 11.0 | TBA=35 All others ND | 1.09 |
| 3/23/2004 | 51.09 | 3.52 | | 910 | 51 | ND<170 | --- | 400 | ND<0.50 | 0.68 | 1.0 | 12 | TBA=46 All others ND<1.0 | 0.81 |
| 6/29/2004 | 48.46 | 6.15 | | 1,900 | ND<50 | ND<170 | --- | 1,100 | 1.2 | 4.2 | 3.7 | ND<60 | --- | 1.05 |
| 7/20/2004 | 48.10 | 6.51 | | 3,500 | ND<50 | --- | --- | 2,000 | ND<5.0 | ND<5.0 | ND<5.0 | ND<30 | --- | 1.40 |
| 8/24/2004 | 45.95 | 8.66 | | 12,000 | ND<50 | --- | --- | 5,700 | 18 | 23 | 13.5 | ND<30 | --- | 1.54 |
| 9/23/2004 | 45.21 | 9.40 | | 3,800 | ND<50 | --- | --- | 1,500 | ND<7.0 | 29 | 4.5 | ND<130 | F-Hyde = 15 A-Hyde = 16 Cr = ND<10 | 2.19 |
| 10/21/2004 | 49.54 | 5.07 | | 410 | ND<50 | --- | --- | 260 | ND<0.50 | 0.80 | 0.83 | ND<30 | --- | 0.48 |
| 11/16/2004 | 50.41 | 4.20 | | 870 | 62 | --- | --- | 360 | 1.1 | 6.2 | 2.0 | ND<50 | --- | --- |
| 12/14/2004 | 51.89 | 2.72 | | 1,000 | ND<50 | --- | --- | 270 | 1.2 | 0.91 | 2.6 | ND<100 | --- | 0.14 |
| 1/11/2005 | 52.98 | 1.63 | | 350 | ND<50 | --- | --- | ND<6.0 | ND<2.0 | ND<0.50 | 0.60 | ND<100 | --- | 0.28 |
| 2/15/2005 | 52.12 | 2.49 | | 320 | ND<50 | --- | --- | ND<4.0 | ND<1.5 | ND<0.50 | ND<0.50 | ND<40 | --- | 0.35 |
| 3/30/2005 | 52.55 | 2.06 | | 650 | ND<50 | --- | --- | 120 | ND<2.0 | ND<2.0 | 1.6 | ND<80 | --- | 0.74 |
| 4/27/2005 | 52.59 | 2.02 | | 670 | 66 | --- | --- | 220 | 0.70 | 1.2 | 1.6 | ND<40 | --- | 0.61 |
| MW-44 | | | | | | | | | | | | | | |
| 54.65 | | | | | | | | | | | | | | |
| 2/10/2003 | 51.15 | 3.50 | | 54,000 | 180 | ND<170 | --- | 22,000 | 92 | 30 | 78 | ND<1.0 | TBA=59 All others ND | 3.2 |
| 3/26/2003 | 53.04 | 1.61 | | 23,300 | 100 | ND<170 | --- | 11,000 | 26 | 59 | ND<25 | ND<50 | ND<50-1,000 | 3.86 |
| 6/19/2003 | 50.52 | 4.13 | | 6,100 | 61 | ND<170 | --- | 3,800 | 16 | 50 | 9.3 | ND<3.0 | ND<1.0-20 | 3.91 |
| 9/24/2003 | 46.64 | 8.01 | | 4,900 | ND<50 | ND<170 | --- | 7,100 | 19 | 30 | 7.0 | 7.1 | TBA=34 All others ND | 1.60 |
| 12/18/2003 | 52.78 | 1.87 | | 4,200 | ND<50 | ND<170 | --- | 5,700 | 6.4 | 24 | 4.5 | 5.0 | ND<1.0-20 | 0.76 |
| 3/23/2004 | 51.23 | 3.42 | | 5,600 | ND<50 | ND<170 | --- | 2,800 | 3.6 | 18 | 4.1 | ND<6.0 | ND<1.0-30 | 0.42 |
| 6/29/2004 | 48.45 | 6.20 | | 11,000 | 81 | ND<170 | --- | 6,000 | 26 | 30 | 16.7 | ND<60 | --- | 0.28 |
| 7/20/2004 | 47.98 | 6.67 | | 12,000 | ND<50 | --- | --- | 6,500 | 22 | 27 | 14.6 | ND<60 | --- | 0.51 |
| 8/24/2004 | 47.11 | 7.54 | | 2,700 | 53 | --- | --- | 2,100 | ND<5.0 | ND<5.0 | ND<5.0 | ND<70 | --- | 2.59 |

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.02/03; CRWQCB Case No. 1THU1116

| WELL/ Sample Date | Well Head Elevation (feet, NAVD88) | Groundwater Elevation (feet, NAVD88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | TPHir (mg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Other Analytes (µg/L) | Dissolved Oxygen (mg/L) |
|--------------------------|--|--|-----------------------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|------------------------|----------------------------|----------------|--|-------------------------------|
| MW-44 Continued | | | | | | | | | | | | | | |
| 9/23/2004 | 45.75 | 45.75 | 8.90 | 8,800 | 69 | --- | --- | 4,600 | 14 | 32 | 13.1 | ND<60 | F-Hyde = 5.5 A-Hyde = 5.1 Cr = ND<10 | 2.04 |
| 10/21/2004 | 49.53 | 49.53 | 5.12 | 3,500 | 59 | --- | --- | 1,600 | 4.7 | 3.7 | 6.8 | ND<40 | --- | 0.27 |
| 11/16/2004 | 50.63 | 50.63 | 4.02 | 3,100 | 72 | --- | --- | 1,700 | 6.6 | 8.4 | 9.6 | ND<60 | --- | 0.56 |
| 12/14/2004 | 51.76 | 51.76 | 2.89 | 3,000 | 56 | --- | --- | 1,400 | 4.7 | 5.6 | 6.5 | ND<40 | Iron = 3,500 | 0.29 |
| 1/11/2005 | 53.66 | 53.66 | 0.99 | 4,000 | 57 | --- | --- | 2,200 | 7.1 | 1.6 | 9.0 | ND<80 | Iron = 4,600 | 0.36 |
| 2/15/2005 | 52.10 | 52.10 | 2.55 | 2,900 | 55 | --- | --- | 1,400 | 4.8 | 2.3 | 6.0 | ND<50 | --- | 0.36 |
| 3/30/2005 | 53.26 | 53.26 | 1.39 | 3,600 | ND<50 | --- | --- | 1,800 | 6.7 | 4.3 | 7.1 | ND<70 | --- | 0.39 |
| 4/27/2005 | 51.51 | 51.51 | 3.14 | 4,500 | 82 | --- | --- | 2,300 | 9.8 | 8.5 | 8.3 | ND<50 | --- | 0.75 |
| Duplicate Samples | | | | | | | | | | | | | | |
| MW-13 | | | | | | | | | | | | | | |
| 1/4/2001 | | | | 6,800 | --- | --- | --- | 580 | 340 | 300 | 281 | 4.4 | --- | --- |
| MW-13 | | | | | | | | | | | | | | |
| 4/12/2001 | | | | 240 | --- | --- | --- | 35 | 2.9 | 4.2 | 8.06 | ND<0.50 | --- | --- |
| MW-6 | | | | | | | | | | | | | | |
| 7/10/2001 | | | | ND<50 | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 32 | --- | --- |
| MW-19 | | | | | | | | | | | | | | |
| 11/1/2001 | | | | ND<50 | --- | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<1.0-20 | --- |
| MW-9 | | | | | | | | | | | | | | |
| 11/1/2001 | | | | 900 | --- | --- | --- | 330 | 3.1 | 0.60 | 0.72 | ND<1.0 | ND<1.0-20 | --- |

NOTES:

feet msl - feet above mean sea level
 TPHg - total petroleum hydrocarbons as gasoline
 TPHd - total petroleum hydrocarbons as diesel
 TPHmo - total petroleum hydrocarbons as motor oil
 TPHir - total petroleum hydrocarbons by infrared method
 Xylenes - total is reported from m,p-xylene and o-xylene.
 Other analytes include the Fuel Oxygenates:
 MTBE - methyl tertiary butyl ether
 DIPE - di-isopropyl ether
 ETBE - ethyl tertiary butyl ether
 TBA - tertiary butyl alcohol
 TAME - tertiary amyl methyl ether
 A-Hyde - Acetaldehyde
 F-Hyde - Formaldehyde
 Cr - Dissolved Chromium
 COD - Chemical oxygen demand
 All results reported in micrograms per liter (µg/L)
 ND<50 - non-detect at reporting limits shown
 --- = sample not analyzed for parameter
 * - sample broken in laboratory and not analyzed

TABLE 2: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)

Former Shell Bulk Plant

400 Eighth Street, Fortuna

LACO No. 4629.03; CRWQCB Case No. 1THU116

| Well ID / Sample Date | ORP (mV) | DO (mg/L) |
|--------------------------|-------------|--------------|
| MW1A | | |
| 9/23/2004 | Ur | 0.27 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -49 | 0.49 |
| 4/27/2005 | -63 | 0.38 |
| MW15 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | --- | --- |
| 4/27/2005 | --- | --- |
| MW16 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | --- | --- |
| 4/27/2005 | --- | --- |
| MW19 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | --- | --- |
| 4/27/2005 | --- | --- |
| MW20 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | --- | --- |
| 4/27/2005 | --- | --- |
| MW23 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -15 | 0.99 |
| 4/27/2005 | 10 | 0.58 |
| MW24 | | |
| 9/23/2004 | --- | --- |
| 11/16/2004 | --- | --- |
| 12/14/2004 | 12 | 3.07 |
| 4/27/2005 | 22 | 0.41 |
| MW25 | | |
| 9/23/2004 | -59 | 0.59 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | Ur | 0.37 |
| 4/27/2005 | -37 | 0.70 |

TABLE 2: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)Former Shell Bulk Plant
400 Eighth Street, Fortuna

LACO No. 4629.03; CRWQCB Case No. 1THU116

| Well ID / Sample Date | ORP (mV) | DO (mg/L) |
|--------------------------|-------------|--------------|
| MW27 | | |
| 7/20/2004 | -83 | 0.57 |
| 8/24/2004 | Ur | 1.38 |
| 9/8/2004 | Ur | 0.35 |
| 9/23/2004 | Ur | 2.15 |
| 10/21/2004 | -90 | 0.90 |
| 11/16/2004 | Ur | 0.55 |
| 12/14/2004 | Ur | 0.45 |
| 1/11/2005 | Ur | 0.40 |
| 2/15/2005 | Ur | 0.48 |
| 3/30/2005 | Ur | 0.49 |
| 4/27/2005 | Ur | 0.34 |
| MW28 | | |
| 7/20/2004 | Ur | 0.63 |
| 8/24/2004 | Ur | 1.67 |
| 9/8/2004 | Ur | 0.62 |
| 9/23/2004 | --- | --- |
| 10/21/2004 | 43 | 1.45 |
| 11/16/2004 | Ur | 0.70 |
| 12/14/2004 | -94 | 0.45 |
| 1/11/2005 | Ur | 0.39 |
| 2/15/2005 | Ur | 0.46 |
| 3/30/2005 | Ur | 0.51 |
| 4/27/2005 | -66 | 0.89 |
| MW29 | | |
| 9/23/2004 | -93 | 0.51 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -8 | 4.05 |
| 4/27/2005 | -7 | 0.99 |
| MW30 | | |
| 7/20/2004 | Ur | 0.57 |
| 8/24/2004 | Ur | 1.30 |
| 9/8/2004 | Ur | 0.32 |
| 9/23/2004 | --- | --- |
| 10/21/2004 | Ur | 0.32 |
| 11/16/2004 | Ur | 0.58 |
| 12/14/2004 | Ur | 0.52 |
| 1/11/2005 | Ur | 0.22 |
| 2/15/2005 | Ur | 0.41 |
| 3/30/2005 | Ur | 0.43 |
| 4/27/2005 | -85 | 0.19 |
| MW33 | | |
| 9/23/2004 | -23 | 0.26 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -48 | 0.41 |
| 4/27/2005 | -12 | 0.62 |

TABLE 2: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)

Former Shell Bulk Plant
 400 Eighth Street, Fortuna
 LACO No. 4629.03; CRWQCB Case No. 1THU116

| Well ID / Sample Date | ORP (mV) | DO (mg/L) |
|----------------------------------|---------------------|----------------------|
| MW34 | | |
| 7/20/2004 | -33 | 0.57 |
| 8/24/2004 | Ur | 1.97 |
| 9/8/2004 | -42 | 0.52 |
| 9/23/2004 | -31 | 0.96 |
| 10/21/2004 | -44 | 0.59 |
| 11/16/2004 | -76 | 0.48 |
| 12/14/2004 | Ur | 1.14 |
| 1/11/2005 | -84 | 0.39 |
| 2/15/2005 | -92 | 0.37 |
| 3/30/2005 | -79 | 0.54 |
| 4/27/2005 | -94 | 0.51 |
| MW35 | | |
| 9/23/2004 | -41 | 0.32 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | Ur | 0.51 |
| 4/27/2005 | -73 | 0.33 |
| MW36 | | |
| 9/23/2004 | -4 | 0.31 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -53 | 0.74 |
| 4/27/2005 | -74 | 0.38 |
| MW37 | | |
| 9/23/2004 | -4 | 0.16 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -17 | 0.45 |
| 4/27/2005 | 15 | 0.66 |
| MW38 | | |
| 7/20/2004 | 12 | 0.64 |
| 8/24/2004 | 59 | 3.28 |
| 9/8/2004 | 59 | 0.77 |
| 9/23/2004 | 53 | 0.85 |
| 10/21/2004 | 47 | 0.55 |
| 11/16/2004 | 55 | 2.87 |
| 12/14/2004 | 61 | 2.78 |
| 1/11/2005 | 26 | 1.12 |
| 2/15/2005 | -53 | 0.38 |
| 3/30/2005 | -55 | 0.66 |
| 4/27/2005 | -5 | 0.49 |
| MW39 | | |
| 9/23/2004 | -54 | 0.14 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -60 | 0.51 |
| 4/27/2005 | -31 | 0.33 |

TABLE 2: FIELD INTRINSIC INDICATOR RESULTS (DO AND ORP)

Former Shell Bulk Plant

400 Eighth Street, Fortuna

LACO No. 4629.03; CRWQCB Case No. 1THU116

| Well ID / Sample Date | ORP (mV) | DO (mg/L) |
|---|-------------|--------------|
| MW40 | | |
| 9/23/2004 | -91 | 1.10 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -69 | 0.81 |
| 4/27/2005 | -39 | 0.36 |
| MW41 | | |
| 9/23/2004 | Ur | 1.39 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -48 | 0.45 |
| 4/27/2005 | -51 | 0.30 |
| MW42 | | |
| 9/23/2004 | -92 | 1.40 |
| 11/16/2004 | --- | --- |
| 12/14/2004 | -77 | 0.43 |
| 4/27/2005 | -75 | 0.33 |
| MW43 | | |
| 7/20/2004 | -64 | 1.40 |
| 8/24/2004 | Ur | 1.54 |
| 9/8/2004 | -60 | 0.29 |
| 9/23/2004 | -61 | 2.19 |
| 10/21/2004 | -33 | 0.48 |
| 11/16/2004 | -18 | 0.79 |
| 12/14/2004 | 7 | 0.14 |
| 1/11/2005 | 31 | 0.28 |
| 2/15/2005 | 6 | 0.35 |
| 3/30/2005 | -42 | 0.74 |
| 4/27/2005 | -38 | 0.61 |
| MW44 | | |
| 7/20/2004 | -63 | 0.51 |
| 8/24/2004 | Ur | 2.59 |
| 9/8/2004 | -49 | 1.65 |
| 9/23/2004 | -57 | 2.04 |
| 10/21/2004 | -31 | 0.27 |
| 11/16/2004 | -23 | 0.56 |
| 12/14/2004 | -37 | 0.29 |
| 1/11/2005 | -46 | 0.36 |
| 2/15/2005 | -82 | 0.36 |
| 3/30/2005 | -55 | 0.39 |
| 4/27/2005 | -45 | 0.75 |
| Notes: DO - Dissolved Oxygen (mg/L) ORP - Oxygen Reduction Potential (mV) Ur - Under range of instrument | | |

TABLE 3: Sum of COCs/ PFP Milestone Achievement

Former Bulkplant - UST Area

LACO Project No. 4629.03

Case No. 1THU116

Claim No. 016125

| TABLE H: PAY-FOR-PERFORMANCE MILESTONE ACHIEVEMENT | | | | | | | | | |
|---|------------|------------------------|---------------------------|---------------------------|--------------------------------|---------------------------|----------------------------------|------------------------|---------------------------------|
| Well ID/ DATE | | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | % BTEX Reduction |
| Target | | 500 | 250 | 42 | 29 | 17 | 338 | 13 | |
| MW27 | Baseline | 8600 | 3500 | 26 | 81 | 23.6 | 3631 | NA | |
| MW28 | Baseline | 16000 | 6100 | 35 | 83 | 28.4 | 6246.4 | NA | |
| MW30 | Baseline | 22000 | 7700 | 150 | 900 | 481 | 9231 | NA | |
| MW44 | Baseline | 4800 | 3000 | 10 | 26 | 6.8 | 3042.8 | NA | |
| Sum COC | | | 20300 | 221 | 1090 | 539.8 | 22151 | | |
| MW27 | 7/20/2004 | 2700 | 810 | 17 | 12 | 5.0 | 844 | ND<3.0 | |
| MW28 | 7/20/2004 | 10000 | 4800 | 28 | 31 | 15 | 4874 | ND<30 | |
| MW30 | 7/20/2004 | 31000 | 9400 | 230 | 840 | 437 | 10907 | ND<300 | |
| MW44 | 7/20/2004 | 12000 | 6500 | 22 | 27 | 14.6 | 6563.6 | ND<60 | |
| Sum COC | | | 21510 | 297 | 910 | 472 | 23189 | | -5% |
| MW27 | 8/24/2004 | 3700 | 960 | 17 | 24 | 7.2 | 1008 | ND<30 | |
| MW28 | 8/24/2004 | 15000 | 6100 | 43 | 46 | 21 | 6210 | ND<100 | |
| MW30 | 8/24/2004 | 33000 | 10000 | 190 | 630 | 273 | 11093 | ND<300 | |
| MW44 | 8/24/2004 | 2700 | 2100 | 5.0 | 5.0 | 5.0 | 2115 | ND<70 | |
| Sum COC | | | 19160 | 255 | 705 | 306 | 20426 | | 8% |
| MW27 | 9/23/2004 | 2000 | 280 | 15 | 11 | 6.0 | 312 | ND<40 | |
| MW28 | 9/23/2004 | 9400 | 4700 | 34 | 40 | 18 | 4792 | ND<80 | |
| MW30 | 9/23/2004 | 20000 | 6200 | 150 | 470 | 576 | 7396 | ND<300 | |
| MW44 | 9/23/2004 | 8800 | 4600 | 14 | 32 | 13.1 | 4659.1 | ND<60 | |
| Sum COC | | | 15780 | 213 | 553 | 613 | 17159 | | 24% |
| MW27 | 10/21/2004 | 1100 | 170 | 8.2 | 16 | 6.0 | 200.2 | 10 | |
| MW28 | 10/21/2004 | 130 | 53 | 0.50 | 0.90 | 0.61 | 55.01 | ND<3.0 | |
| MW30 | 10/21/2004 | 31000 | 9100 | 300 | 1400 | 870 | 11670 | ND<300 | |
| MW44 | 10/21/2004 | 3500 | 1600 | 4.7 | 3.7 | 6.8 | 1615.2 | ND<40 | |
| Sum COC | | | 10923 | 313 | 1421 | 883 | 13540 | | 41% |

TABLE 3: Sum of COCs/ PFP Milestone Achievement

Former Bulkplant - UST Area

LACO Project No. 4629.03

Case No. 1THU116

Claim No. 016125

| TABLE H: PAY-FOR-PERFORMANCE MILESTONE ACHIEVEMENT | | | | | | | | | |
|---|------------|------------------------|---------------------------|---------------------------|--------------------------------|---------------------------|----------------------------------|------------------------|---------------------------------|
| Well ID/ DATE | | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L) | % BTEX Reduction |
| MW27 | 11/16/2004 | 1100 | 150 | 14 | 8.7 | 5.1 | 177.8 | ND<25 | |
| MW28 | 11/16/2004 | 980 | 500 | 3.6 | 4.4 | 3.2 | 511.2 | ND<13 | |
| MW30 | 11/16/2004 | 30000 | 9200 | 320 | 2000 | 930 | 12450 | ND<300 | |
| MW44 | 11/16/2004 | 3100 | 1700 | 6.6 | 8.4 | 9.6 | 1724.6 | ND<60 | |
| Sum COC | | | 11550 | 344 | 2022 | 948 | 14864 | | 35% |
| MW27 | 12/14/2004 | 1100 | 170 | 8.2 | 14 | 3.2 | 195.4 | ND<20 | |
| MW28 | 12/14/2004 | 1000 | 350 | 5.1 | 7.0 | 3.8 | 365.9 | ND<20 | |
| MW30 | 12/14/2004 | 26000 | 7300 | 270 | 1300 | 810 | 9680 | ND<300 | |
| MW44 | 12/14/2004 | 3000 | 1400 | 4.7 | 5.6 | 6.5 | 1416.8 | ND<40 | |
| Sum COC | | | 9220 | 288 | 1327 | 824 | 11658 | | 50% |
| MW27 | 1/11/2005 | 1300 | 310 | 7.6 | 9.9 | 6.0 | 333.5 | ND<25 | |
| MW28 | 1/11/2005 | 760 | 150 | 4.9 | 7.6 | 3.3 | 165.8 | ND<20 | |
| MW30 | 1/11/2005 | 25000 | 8100 | 310 | 1200 | 920 | 10530 | ND<300 | |
| MW44 | 1/11/2005 | 4000 | 2200 | 7.1 | 1.6 | 9.0 | 2217.7 | ND<80 | |
| Sum COC | | | 10760 | 330 | 1219 | 938 | 13247 | | 43% |
| MW27 | 2/15/2005 | 990 | 60 | 10 | 7.4 | 5.0 | 82.4 | ND<20 | |
| MW28 | 2/15/2005 | 640 | 94 | 3.3 | 6.2 | 2.4 | 105.9 | ND<15 | |
| MW30 | 2/15/2005 | 22000 | 6100 | 200 | 890 | 670 | 7860 | ND<300 | |
| MW44 | 2/15/2005 | 2900 | 1400 | 4.8 | 2.3 | 6.0 | 1413.1 | ND<50 | |
| Sum COC | | | 7654 | 218 | 906 | 683 | 9461 | | 61% |
| MW27 | 3/30/2005 | 1300 | 300 | 7.9 | 6.8 | 3.5 | 318.2 | ND<30 | |
| MW28 | 3/30/2005 | 780 | 100 | 4.2 | 8.5 | 1.7 | 114.4 | ND<20 | |
| MW30 | 3/30/2005 | 18000 | 5600 | 180 | 800 | 590 | 7170 | ND<300 | |
| MW44 | 3/30/2005 | 3600 | 1800 | 6.7 | 4.3 | 7.1 | 1818.1 | ND<70 | |
| Sum COC | | | 7800 | 199 | 820 | 602 | 9421 | | 61% |
| MW27 | 4/27/2005 | 1100 | 250 | 5.7 | 8.2 | 2.5 | 266.4 | ND<20 | |
| MW28 | 4/27/2005 | 620 | 58 | 2.9 | 6.7 | 0.84 | 68.44 | ND<10 | |
| MW30 | 4/27/2005 | 19000 | 4500 | 180 | 680 | 532 | 5892 | ND<300 | |
| MW44 | 4/27/2005 | 4500 | 2300 | 9.8 | 8.5 | 8.3 | 2326.6 | ND<50 | |
| Sum COC | | | 7108 | 198 | 703 | 543.6 | 8553.4 | | 65% |

Notes:

BTEX results reported as non-detectable (ND) were included at the value for the minimum detection limit.

The 25% through 75% milestones are reached based on the sum of BTEX concentrations for all key wells. For the 100% milestone, each individual well must meet the PARG.

Attachment 1

Attachment 2



| | |
|--|--------------------------------|
| Project Name: Former Shell Bulk Plant - PFF | Tech: SJD |
| Project No.: 4629.03 | Mob/Demob time: .25/.25 |
| Date: 1-11-05 | Travel time: 1.0 |
| Global ID No.: T0602300107 | Time on site: 10:10 |
| PM: CJW | Time off site: 3:15 |
| | Mileage: 35 |

| WELL No.: | MW27 | MW28 | MW30 | MW34 | MW38 |
|------------------------|------|------|------|-------|-------|
| DIAMETER (in) | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 |
| SCREENED INTERVAL (ft) | 5-10 | 5-10 | 5-10 | 14-18 | 12-14 |
| DEPTH TO WATER (ft) | 5.78 | 1.56 | 0.73 | 2.81 | 1.29 |

| | INITIAL | | FINAL | | INITIAL | | FINAL | | INITIAL | | FINAL | |
|-------------------------|---------|------|-------|------|---------|------|-------|------|---------|------|-------|--|
| | | | | | | | | | | | | |
| FIELD INTRINSICS | | | | | | | | | | | | |
| pH | 6.9 | 6.6 | 6.9 | 6.7 | 7.0 | 6.7 | 6.5 | 6.4 | 6.5 | 6.3 | | |
| TEMP (°C) | 11.5 | 14.3 | 11.4 | 12.1 | 10.8 | 12.7 | 11.4 | 12.5 | 11.5 | 13.4 | | |
| E _{ow} (µmohs) | 472 | 354 | 286 | 272 | 264 | 250 | 240 | 227 | 268 | 262 | | |
| ORP (mV) | -98 | Ur | Ur | Ur | Ur | Ur | -93 | -84 | 0 | 26 | | |
| DO (mg/L) | 1.12 | 0.40 | 1.45 | 0.39 | 1.45 | 0.22 | 1.35 | 0.39 | 2.44 | 1.12 | | |
| OTHER (units) | | | | | | | | | | | | |

| | INITIAL | | FINAL | | INITIAL | | FINAL | | INITIAL | | FINAL | |
|--|------------------|--------|------------------|---------------|----------------------|-------------------|-----------|--------|---------|-------------------------|-------|--|
| | | | | | | | | | | | | |
| DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING | | | | | | | | | | | | |
| PURGE | | | | | | | | | | | | |
| TIME | 10:48 | 10:58 | 11:23 | 11:29 | 2:33 | 2:39 | 11:58 | 12:08 | 12:44 | 12:54 | | |
| METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | | | |
| RATE (Lpm) | 0.18 | | 0.19 | | 0.21 | | 0.16 | | 0.16 | | | |
| VOLUME (L) | 1.80 | | 1.10 | | 1.25 | | 1.60 | | 1.60 | | | |
| COLOR | CLEAR | CLOUDY | LT. GREY TINT | LT. GREY TINT | CLEAR | LIGHT GREY TURBID | CLEAR | CLOUDY | CLOUDY | LT. YELLOW/BROWN CLOUDY | | |
| ODOR | MED. FUEL/RUBBER | | MED. SULFUR/FUEL | | STRONG RUBBER/SULFUR | | MED. FUEL | | NONE | | | |
| INTAKE DEPTH (FEET) | 8.0 | | 8.0 | | 9.0 | | 16.0 | | 13.0 | | | |

| | INITIAL | | FINAL | | INITIAL | | FINAL | | INITIAL | | FINAL | |
|-----------------------|-----------------------------------|--|-----------------------------------|--|-----------------------------------|--|-----------------------------------|--|-----------------------------------|--|-------|--|
| | | | | | | | | | | | | |
| SAMPLE | | | | | | | | | | | | |
| TIME | 10:59 | | 11:30 | | 2:40 | | 12:09 | | 12:55 | | | |
| METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | | | |
| ANALYTES | TPHg/BTEX; TPHd w/SGC; Diss. Iron | | | |
| TOTAL DRAWDOWN (FEET) | 1.02 | | 2.14 | | 1.78 | | 1.97 | | 0.91 | | | |
| REMARKS | | | | | | | | | | | | |

| | | | | | |
|----------------|------|------|------|------|------|
| WELL CONDITION | good | good | good | good | good |
|----------------|------|------|------|------|------|

WASTE DRUMS NO DOT DRUMS ON SITE



Project Name: **Former Shell Bulk Plant - PFP**
Project No.: **4629.03**
Date: **1-11-05**
Golbal ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.25/.25**
Travel time: **1.0**
Time on site: **10:10**
Time off site: **8:15**
Mileage: **35**

| WELL No.: | MW43 | | MW44 | | | | | | | | |
|------------------------|-----------------------|-----------------------------------|-------------------------|-----------------------------------|--------------|-------|---------|-------|---------|-------|--|
| DIAMETER (in) | 2.00 | | 2.00 | | | | | | | | |
| SCREENED INTERVAL (ft) | 16-18 | | 12-15 | | | | | | | | |
| DEPTH TO WATER (ft) | 1.63 | | 0.99 | | | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | 6.6 | 6.4 | 6.9 | 6.6 | | | | | | |
| | TEMP (°C) | 11.1 | 13.0 | 10.8 | 12.5 | | | | | | |
| | Ecw (µmhos) | 288 | 277 | 284 | 269 | | | | | | |
| | ORP (mV) | -12 | 31 | -43 | -46 | | | | | | |
| | DO (mg/L) | 2.18 | 0.28 | 1.61 | 0.36 | | | | | | |
| OTHER (units) | _____ | | _____ | | | | | | | | |
| PURGE | TIME | 1:25 | 1:35 | 2:02 | 2:10 | | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | | |
| | RATE (Lpm) | 0.20 | | 0.25 | | | | | | | |
| | VOLUME (L) | 2.0 | | 2.0 | | | | | | | |
| | COLOR | CLOUDY | LT. ORANGE BROWN CLOUDY | CLEAR | LIGHT YELLOW | | | | | | |
| | ODOR | YES? | | MED. FUEL | | | | | | | |
| | INTAKE DEPTH (FEET) | 17.0 | | 13.5 | | | | | | | |
| SAMPLE | TIME | 1:36 | | 2:11 | | | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC; Diss. Iron | | TPHg/BTEX; TPHd w/SGC; Diss. Iron | | | | | | | |
| | TOTAL DRAWDOWN (FEET) | 6.89 | | 7.53 | | | | | | | |
| | REMARKS | _____ | | _____ | | | | | | | |
| WELL CONDITION | good | | good | | | | | | | | |
| WASTE DRUMS | | | | | | | | | | | |



Project Name: FORMER SHELL BULK PLANT - PFP
Project No.: 4629.03

Tech: SJD
Date: 1-11-05

| WELL ID: | METER ACCURACY RANGE | | | | | WELL ID: | | | | | | |
|----------|----------------------|------------|--------------|-------------|--------------|-----------|-------|-----|-----------|-------------|----------|-----------|
| mw27 | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | mw28 | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| | | | | | | | 11:25 | 6.7 | 12.1 | 279 | Ur | 0.44 |
| | 10:50 | 6.7 | 12.7 | 428 | Ur | 0.82 | 11:27 | 6.7 | 12.1 | 275 | Ur | 0.40 |
| | 10:52 | 6.7 | 13.6 | 400 | Ur | 0.75 | 11:29 | 6.7 | 12.1 | 272 | Ur | 0.39 |
| | 10:54 | 6.6 | 14.1 | 380 | Ur | 0.46 | | | | | | |
| | 10:56 | 6.6 | 14.2 | 362 | Ur | 0.40 | | | | | | |
| | 10:58 | 6.6 | 14.3 | 354 | Ur | 0.40 | | | | | | |
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| WELL ID: mw34 | | | | | | WELL ID: mw38 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 12:00 | 6.4 | 11.6 | 238 | -89 | 1.03 | 12:46 | 6.4 | 12.2 | 268 | 11 | 2.22 |
| 12:02 | 6.4 | 11.9 | 234 | -89 | 0.72 | 12:48 | 6.4 | 13.1 | 264 | 22 | 1.64 |
| 12:04 | 6.4 | 12.0 | 232 | -86 | 0.56 | 12:50 | 6.4 | 13.3 | 262 | 26 | 1.32 |
| 12:06 | 6.4 | 12.3 | 228 | -85 | 0.41 | 12:52 | 6.3 | 13.3 | 262 | 26 | 1.11 |
| 12:08 | 6.4 | 12.5 | 227 | -84 | 0.39 | 12:54 | 6.3 | 13.4 | 262 | 26 | 1.12 |
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| WELL ID: mw43 | | | | | | WELL ID: mw44 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 1:27 | 6.5 | 12.1 | 284 | 7 | 0.67 | 2:04 | 6.6 | 12.4 | 274 | -46 | 0.44 |
| 1:29 | 6.4 | 12.9 | 281 | 24 | 0.69 | 2:06 | 6.6 | 12.8 | 271 | -47 | 0.50 |
| 1:31 | 6.4 | 12.9 | 280 | 29 | 0.53 | 2:08 | 6.6 | 12.7 | 270 | -46 | 0.45 |
| 1:33 | 6.4 | 13.0 | 280 | 31 | 0.30 | 2:10 | 6.6 | 12.5 | 269 | -46 | 0.36 |
| 1:35 | 6.4 | 13.0 | 277 | 31 | 0.28 | | | | | | |
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Project Name: Former Shell Bulk Plant - PTP
Project No.: 4629.03

Tech: SJD
Date: 1-11-05

| WELL ID: | METER ACCURACY RANGE | | | | | WELL ID: | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
|-------------|----------------------|------------|--------------|-------------|--------------|-------------|------|----|-----------|-------------|----------|-----------|
| <u>MW30</u> | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | | | | | | | |
| | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| | <u>2:35</u> | <u>6.7</u> | <u>12.2</u> | <u>253</u> | <u>Ur</u> | <u>0.33</u> | | | | | | |
| | <u>2:37</u> | <u>6.7</u> | <u>12.6</u> | <u>251</u> | <u>Ur</u> | <u>0.23</u> | | | | | | |
| | <u>2:39</u> | <u>6.7</u> | <u>12.7</u> | <u>250</u> | <u>Ur</u> | <u>0.22</u> | | | | | | |
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| WELL ID: | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | WELL ID: | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
|----------|------|----|-----------|-------------|----------|-----------|----------|------|----|-----------|-------------|----------|-----------|
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| WELL ID: | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | WELL ID: | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
|----------|------|----|-----------|-------------|----------|-----------|----------|------|----|-----------|-------------|----------|-----------|
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WASTE DISPOSAL FORM

Project No. 4629.03

Date 1-11-05

Location BULK PLANT

By SJD

Number of Soil Drums 0

Number of Water Drums 0

Please Insert a Check Mark

Condition of Drums

| | Yes | No | Good | Fair | Deteriorated |
|-----------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Soil DOT drums | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water DOT drums | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Other _____

* Please describe location of all drums with references with the site, or write any comments, below.



| | |
|--|--------------------------------|
| Project Name: Former Shell Bulk Plant - PFP | Tech: SJD |
| Project No.: 4629.03 | Mob/Demob time: .30/.25 |
| Date: 2-15-05 | Travel time: 1.25 |
| Global ID No.: T0602300107 | Time on site: 8:20 |
| PM: CJW | Time off site: 1:00 |
| | Mileage: 35 |

| WELL No.: | MW27 | MW28 | MW30 | MW34 | MW38 |
|------------------------|------|------|------|-------|-------|
| DIAMETER (in) | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 |
| SCREENED INTERVAL (ft) | 5-10 | 5-10 | 5-10 | 14-18 | 12-14 |
| DEPTH TO WATER (ft) | 4.65 | 2.16 | 1.25 | 5.46 | 1.84 |

| | INITIAL | | FINAL | | INITIAL | | FINAL | | INITIAL | | FINAL | | |
|-------------------------|-----------------------|-----------------------|-------|-------------------------------|----------------|-----------------------|----------------|-----------------------|---------|-----------------------|--------|--|--|
| | FIELD INTRINSICS | | | | | | | | | | | | |
| pH | 7.6 | 6.6 | 6.8 | 6.7 | 6.9 | 6.7 | 6.8 | 6.4 | 6.7 | 6.4 | | | |
| TEMP (°C) | 10.7 | 12.7 | 11.0 | 11.2 | 14.0 | 13.3 | 12.0 | 13.2 | 14.0 | 13.7 | | | |
| E _{sw} (µmhos) | 363 | 304 | 251 | 247 | 224 | 224 | 223 | 217 | 224 | 233 | | | |
| ORP (mV) | Ur | Ur | Ur | Ur | Ur | Ur | -78 | -92 | -64 | -53 | | | |
| DO (mg/L) | 1.17 | 0.48 | 1.35 | 0.46 | 2.24 | 0.41 | 1.48 | 0.37 | 1.57 | 0.38 | | | |
| OTHER (units) | _____ | | _____ | | _____ | | _____ | | _____ | | _____ | | |
| PURGE | TIME | 9:17 | 9:25 | 9:43 | 9:51 | 12:17 | 12:23 | 10:18 | 10:26 | 10:44 | 10:54 | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | | | |
| | RATE (Lpm) | 0.20 | | 0.19 | | 0.20 | | 0.19 | | 0.18 | | | |
| | VOLUME (L) | 1.60 | | 1.50 | | 1.20 | | 1.50 | | 1.80 | | | |
| | COLOR | CLEAR | CLEAR | MED. GREY TINT | MED. GREY TINT | MED. GREY TINT | MED. GREY TINT | CLOUDY | CLOUDY | CLOUDY | CLOUDY | | |
| | ODOR | MED. FUEL | | STRONG / SLIGHT SULFUR / FUEL | | STRONG FUEL / RUBBER | | MED. FUEL / RUBBER | | SLIGHT FUEL / SWEET | | | |
| | INTAKE DEPTH (FEET) | 8.0 | | 7.5 | | 7.5 | | 16.0 | | 13.0 | | | |
| SAMPLE | TIME | 9:26 | | 9:52 | | 12:24 | | 10:27 | | 10:55 | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | | |
| | TOTAL DRAWDOWN (FEET) | 1.25 | | 1.56 | | 1.21 | | 1.99 | | 1.21 | | | |
| | REMARKS | _____ | | _____ | | _____ | | _____ | | _____ | | | |
| WELL CONDITION | good | | good | | good | | good | | good | | | | |
| WASTE DRUMS | _____ | | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Former Shell Bulk Plant - PFP**
Project No.: **4629.03**
Date: **2-15-05**
Golbal ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.30 / .25**
Travel time: **1.25**
Time on site: **8.20**
Time off site: **1.00**
Mileage: **35**

| WELL No.: | MW43 | | MW44 | | | | | | | |
|------------------------|-------------------------|-----------------------|--------------------|-----------------------|--------------------|-------|---------|-------|---------|-------|
| DIAMETER (in) | 2.00 | | 2.00 | | | | | | | |
| SCREENED INTERVAL (ft) | 16-18 | | 12-15 | | | | | | | |
| DEPTH TO WATER (ft) | 2.49 | | 2.55 | | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL |
| | pH | 6.8 | 6.4 | 6.8 | 6.6 | | | | | |
| | TEMP (°C) | 12.9 | 12.7 | 13.1 | 12.6 | | | | | |
| | E _{cw} (µmohs) | 233 | 242 | 242 | 233 | | | | | |
| | ORP (mV) | -22 | 6 | -72 | -82 | | | | | |
| | DO (mg/L) | 1.76 | 0.35 | 1.02 | 0.36 | | | | | |
| OTHER (units) | | | | | | | | | | |
| PURGE | TIME | 11:20 | 11:30 | 11:47 | 11:55 | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | |
| | RATE (Lpm) | 0.20 | | 0.20 | | | | | | |
| | VOLUME (L) | 2.0 | | 1.60 | | | | | | |
| | COLOR | CLEAR | YELLOW/ORANGE TINT | CLEAR | ORANGE/YELLOW TINT | | | | | |
| | ODOR | SWEET - CITRUS | | MED. FUEL | | | | | | |
| | INTAKE DEPTH (FEET) | 17.0 | | 13.5 | | | | | | |
| SAMPLE | TIME | 11:31 | | 11:56 | | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | | | | | |
| | TOTAL DRAWDOWN (FEET) | 6.32 | | 6.44 | | | | | | |
| | REMARKS | | | | | | | | | |
| WELL CONDITION | good | | good | | | | | | | |
| WASTE DRUMS | | | | | | | | | | |

Project Name: FORMER SHELL BULK PLANT - PFP
 Project No.: 4629.03

Tech: SJD
 Date: 2-15-05

| WELL ID: <u>MW30</u> | | | | | | WELL ID: | | | | | |
|----------------------|------------|--------------|-------------|--------------|-----------|----------|----|-----------|-------------|----------|-----------|
| METER ACCURACY RANGE | | | | | | | | | | | |
| +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| 12:19 | 6.7 | 13.4 | 227 | Ur | 0.50 | | | | | | |
| 12:21 | 6.7 | 13.3 | 226 | Ur | 0.44 | | | | | | |
| 12:23 | 6.7 | 13.3 | 224 | Ur | 0.41 | | | | | | |
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| WELL ID: | | | | | | WELL ID: | | | | | |
|----------|----|-----------|-------------|----------|-----------|----------|----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
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| WELL ID: | | | | | | WELL ID: | | | | | |
|----------|----|-----------|-------------|----------|-----------|----------|----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
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WASTE DISPOSAL FORM

Project No. 4629.03

Date 2-15-05

Location FORMER SHELL BULK PLANT

By SJD

Number of Soil Drums 0

Number of Water Drums 0

Please Insert a Check Mark

Condition of Drums

| | Yes | No | Good | Fair | Deteriorated |
|-----------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Soil DOT drums | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water DOT drums | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Other _____

* Please describe location of all drums with references with the site, or write any comments, below.



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
 TEL 707.443.5054
 FAX 707.443.0553

Project Name: **Former Shell Bulk Plant - PFP**
 Project No.: **4629.03**
 Date: **3-30-05**
 Golbal ID No.: **T0602300107**
 PM: **CJW**

Tech: **SJD**
 Mob/Demob time: **.25 / .25**
 Travel time: **.75**
 Time on site: **10:30**
 Time off site: **2:50**
 Mileage: **18**

| WELL No.: | MW27 | | MW28 | | MW30 | | MW34 | | MW38 | | |
|------------------------|-------------------------|-----------------------|---------|--------------------------|---------------|-----------------------|---------------|-----------------------|-----------------|-----------------------|--------|
| DIAMETER (in) | 2.00 | | 2.00 | | 2.00 | | 1.50 | | 1.50 | | |
| SCREENED INTERVAL (ft) | 5-10 | | 5-10 | | 5-10 | | 14-18 | | 12-14 | | |
| DEPTH TO WATER (ft) | 4.35 | | 3.22 | | 0.57 | | 2.04 | | 1.16 | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | 7.6 | 6.9 | 7.2 | 7.0 | 7.3 | 7.0 | 7.6 | 6.9 | 7.1 | 6.7 |
| | TEMP (°C) | 14.6 | 14.7 | 12.4 | 12.5 | 14.1 | 14.7 | 13.5 | 13.9 | 13.3 | 15.4 |
| | E _{sw} (µmhos) | 585 | 449 | 317 | 314 | 296 | 289 | 293 | 279 | 332 | 317 |
| | ORP (mV) | -93 | Ur | Ur | Ur | Ur | Ur | -73 | -79 | -75 | -55 |
| | DO (mg/L) | 1.24 | 0.49 | 1.42 | 0.51 | 2.27 | 0.43 | 1.12 | 0.54 | 1.31 | 0.66 |
| OTHER (units) | | | | | | | | | | | |
| PURGE | TIME | 11:04 | 11:14 | 12:17 | 12:27 | 2:07 | 2:15 | 11:41 | 11:49 | 12:46 | 12:56 |
| | METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | |
| | RATE (Lpm) | 0.18 | | 0.19 | | 0.24 | | 0.19 | | 0.17 | |
| | VOLUME (L) | 1.80 | | 1.90 | | 1.90 | | 1.50 | | 1.70 | |
| | COLOR | CLEAR | CLOUDY | MED. GREY TINT | DK. GREY TINT | CLEAR | LT. GREY TINT | CLOUDY | LT. GREY CLOUDY | CLOUDY | CLOUDY |
| | ODOR | MED. FUEL | | MED. SULFUR / LIGHT FUEL | | STRONG RUBBER / FUEL | | LIGHT FUEL / SULFUR | | LIGHT SULFUR | |
| | INTAKE DEPTH (FEET) | 8.0 | | 8.0 | | 8.0 | | 16.0 | | 13.0 | |
| SAMPLE | TIME | 11:15 | | 12:28 | | 2:17 | | 11:50 | | 12:57 | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | CAM PUMP | | DHP | | DHP | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | |
| | TOTAL DRAWDOWN (FEET) | 1.59 | | 0.76 | | 1.53 | | 1.27 | | 1.26 | |
| | REMARKS | | | | | NEW 2" PLUG | | | | | |
| WELL CONDITION | good | | good | | good | | good | | good | | |
| WASTE DRUMS | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Former Shell Bulk Plant - PFP**
Project No.: **4629.03**
Date: **3-30-05**
Global ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.25 / .25**
Travel time: **.75**
Time on site: **10:30**
Time off site: **2:50**
Mileage: **18**

| WELL No.: | MW43 | | MW44 | | | | | | | |
|------------------------|-------------------------|-----------------------|---------|------------------------|---------|-------|---------|-------|---------|-------|
| DIAMETER (in) | 1.50 | | 1.50 | | | | | | | |
| SCREENED INTERVAL (ft) | 16-18 | | 12-15 | | | | | | | |
| DEPTH TO WATER (ft) | 2.06 | | 1.39 | | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL |
| | pH | 7.2 | 6.9 | 7.4 | 7.0 | | | | | |
| | TEMP (°C) | 13.7 | 12.9 | 13.3 | 13.1 | | | | | |
| | E _{ow} (µmhos) | 311 | 314 | 309 | 306 | | | | | |
| | ORP (mV) | -53 | -42 | -63 | -75 | | | | | |
| | DO (mg/L) | 1.65 | 0.74 | 1.35 | 0.39 | | | | | |
| OTHER (units) | _____ | | _____ | | | | | | | |
| PURGE | TIME | 1:17 | 1:25 | 1:41 | 1:47 | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | |
| | RATE (Lpm) | 0.20 | | 0.23 | | | | | | |
| | VOLUME (L) | 1.60 | | 1.30 | | | | | | |
| | COLOR | CLEAR | CLEAR | CLEAR | CLEAR | | | | | |
| | ODOR | SLIGHT SHOE STORE | | VERY SLIGHT SHOE STORE | | | | | | |
| | INTAKE DEPTH (FEET) | 17.0 | | 13.5 | | | | | | |
| SAMPLE | TIME | 1:27 | | 1:49 | | | | | | |
| | METHOD (DHP/CB/B) | CAM PUMP | | CAM PUMP | | | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | | | | | |
| | TOTAL DRAWDOWN (FEET) | 5.05 | | 6.90 | | | | | | |
| | REMARKS | _____ | | _____ | | | | | | |
| WELL CONDITION | good | | good | | | | | | | |
| WASTE DRUMS | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: FORMER SHELL BULK PLANT - PFP
Project No.: 4629,03

Tech: SJD
Date: 3-30-05

| WELL ID: | METER ACCURACY RANGE | | | | | WELL ID: | mw34 | | | | | |
|----------|----------------------|------------|--------------|----------|--------------|----------|------|-----------|-------------|----------|-----------|--|
| | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | |
| mw27 | | | | | | 11:43 | 7.1 | 13.7 | 294 | -71 | 0.90 | |
| | | | | | | 11:06 | 7.1 | 14.8 | 533 | -99 | 1.08 | |
| | | | | | | 11:08 | 7.0 | 14.8 | 499 | Ur | 0.68 | |
| | | | | | | 11:10 | 7.0 | 14.7 | 479 | Ur | 0.50 | |
| | | | | | | 11:12 | 6.9 | 14.7 | 460 | Ur | 0.49 | |
| | | | | | | 11:14 | 6.9 | 14.7 | 449 | Ur | 0.49 | |

| WELL ID: mw28 | | | | | | WELL ID: mw38 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 12:19 | 7.1 | 12.2 | 320 | Ur | 1.22 | 12:48 | 6.9 | 14.2 | 330 | -78 | 1.28 |
| 12:21 | 7.1 | 12.1 | 321 | Ur | 0.90 | 12:50 | 6.9 | 14.8 | 325 | -71 | 0.97 |
| 12:23 | 7.0 | 12.2 | 318 | Ur | 0.71 | 12:52 | 6.9 | 15.1 | 322 | -58 | 0.76 |
| 12:25 | 7.0 | 12.4 | 318 | Ur | 0.53 | 12:54 | 6.7 | 15.3 | 320 | -55 | 0.73 |
| 12:27 | 7.0 | 12.5 | 314 | Ur | 0.51 | 12:56 | 6.7 | 15.4 | 317 | -55 | 0.66 |

| WELL ID: mw43 | | | | | | WELL ID: mw44 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 1:19 | 7.0 | 13.2 | 317 | -43 | 0.94 | 1:43 | 7.0 | 13.0 | 311 | -71 | 0.50 |
| 1:21 | 6.9 | 12.9 | 317 | -42 | 1.02 | 1:45 | 7.0 | 13.1 | 307 | -74 | 0.41 |
| 1:23 | 6.9 | 12.9 | 315 | -42 | 0.79 | 1:47 | 7.0 | 13.1 | 306 | -75 | 0.39 |
| 1:25 | 6.9 | 12.9 | 314 | -42 | 0.74 | | | | | | |



Project Name: FORMER SHELL BULK PLANT - PFP
Project No.: 4629.03

Tech: SJD
Date: 3-30-05

| WELL ID: | METER ACCURACY RANGE | | | | | WELL ID: | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) |
|----------|----------------------|------------|--------------|-------------------------|--------------|-----------|------|----|-----------|-------------------------|----------|-----------|
| MW30 | +/- 0.2 pH | +/- 0.5 °C | +/- 20 μmohs | +/- 2 mv | +/- 0.3 mg/L | | | | | | | |
| | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| | 2:09 | 7.1 | 14.4 | 295 | Ur | 0.62 | | | | | | |
| | 2:11 | 7.1 | 14.5 | 294 | Ur | 0.52 | | | | | | |
| | 2:13 | 7.0 | 14.6 | 291 | Ur | 0.47 | | | | | | |
| | 2:15 | 7.0 | 14.7 | 289 | Ur | 0.43 | | | | | | |
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| WELL ID: | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) | WELL ID: | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) |
|----------|------|----|-----------|-------------------------|----------|-----------|----------|------|----|-----------|-------------------------|----------|-----------|
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| WELL ID: | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) | WELL ID: | TIME | pH | TEMP (°C) | E _{cw} (μmohs) | ORP (mV) | DO (mg/L) |
|----------|------|----|-----------|-------------------------|----------|-----------|----------|------|----|-----------|-------------------------|----------|-----------|
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Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4-27-05**
Golbal ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.25 / .25**
Travel time: **1.0**
Time on site: **6:30**
Time off site: **3:00**
Mileage: **36**

| WELL No.: | 1A | MW15 | MW16 | MW19 | MW20 |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| DIAMETER (in) | 2.00 | 0.75 | 0.75 | 1.10 | 1.10 |
| SCREENED INTERVAL (ft) | 5-15 | 4.5-14 | 3-14.5 | 22.5-25 | 15.5-19.5 |
| DEPTH TO WATER (ft) | 1.67 | — | 12.07 | 13.85 | 9.96 |
| FIELD INTRINSICS | INITIAL | INITIAL | INITIAL | INITIAL | INITIAL |
| | FINAL | FINAL | FINAL | FINAL | FINAL |
| | pH | 6.8 | 6.7 | | |
| | TEMP (°C) | 17.1 | 16.8 | | |
| | ECW (µmohs) | 273 | 272 | | |
| | ORP (mV) | -33 | -63 | | |
| DO (mg/L) | 1.04 | 0.38 | | | |
| OTHER (units) | — | | | | |
| PURGE | TIME | 10:50 | 11:00 | | |
| | METHOD (DHP/CB/B) | DHP | | | |
| | RATE (Lpm) | 0.19 | | | |
| | VOLUME (L) | 1.90 | | | |
| | COLOR | CLEAR | CLOUDY | | |
| | ODOR | LIGHT RUBBER/SULFUR | | | |
| | INTAKE DEPTH (FEET) | 10.0 | | | |
| SAMPLE | TIME | 11:02 | | | |
| | METHOD (DHP/CB/B) | DHP | 1/2" B | 3/4" B | 3/4" B |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC |
| | TOTAL DRAWDOWN (FEET) | 1.82 | — | — | — |
| | REMARKS | — | — | — | — |
| WELL CONDITION | good | — | — | — | — |
| WASTE DRUMS | — | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4-27-05**
Golbal ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.25/.25**
Travel time: **1.0**
Time on site: **6:30**
Time off site: **3:00**
Mileage: **36**

| WELL No.: | MW23 | MW24 | MW25 | MW27 | MW28 | | | | | | |
|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| DIAMETER (in) | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | | | | | | |
| SCREENED INTERVAL (ft) | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | | | | | | |
| DEPTH TO WATER (ft) | 5.90 | 5.58 | 2.32 | 4.50 | 3.59 | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | |
| | pH | | | 6.6 | 6.3 | | | 7.7 | 6.6 | | |
| | TEMP (°C) | | | 17.6 | 15.8 | | | 11.5 | 12.4 | | |
| | ECW (µmohs) | | | 280 | 282 | | | 438 | 369 | | |
| | ORP (mV) | | | -23 | -37 | | | -29 | -66 | | |
| | DO (mg/L) | | | 0.96 | 0.70 | | | 0.96 | 0.89 | | |
| OTHER (units) | | | | | | | | | | | |
| PURGE | TIME | | | 9:27 | 9:39 | | | 7:35 | 7:47 | | |
| | METHOD (DHP/CB/B) | | | DHP | | | | DHP | | | |
| | RATE (Lpm) | | | 0.17 | | | | 0.17 | | | |
| | VOLUME (L) | | | 2.0 | | | | 2.0 | | | |
| | COLOR | | | CLEAR | CLEAR | | | MED. GREEN TINT | | | |
| | ODOR | | | MED. SULFUR | | | | MED. FUEL | | | |
| | INTAKE DEPTH (FEET) | | | 8.0 | | | | 8.0 | | | |
| SAMPLE | TIME | | | 9:41 | | | | 7:49 | | | |
| | METHOD (DHP/CB/B) | | | DHP | | | | DHP | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | |
| | TOTAL DRAWDOWN (FEET) | | | 0.67 | | | | 2.09 | | | |
| | REMARKS | | | | | | | | | | |
| WELL CONDITION | good | |
| WASTE DRUMS | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Bulk Plant - HPI (UST)**
 Project No.: **4629.03**
 Date: **4-27-05**
 Golbal ID No.: **T0602300107**
 PM: **CJW**

Tech: **SJD**
 Mob/Demob time: **.25/.25**
 Travel time: **1.0**
 Time on site: **6:30**
 Time off site: **3:00**
 Mileage: **36**

| WELL No.: | MW29 | MW30 | MW33 | MW34 | MW35 |
|------------------------|------|------|---------|-------|-------|
| DIAMETER (in) | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 |
| SCREENED INTERVAL (ft) | 5-10 | 5-10 | 14-17.5 | 14-18 | 17-20 |
| DEPTH TO WATER (ft) | 2.20 | 2.15 | 2.23 | 6.69 | 6.91 |

| | INITIAL | | FINAL | | INITIAL | | FINAL | | INITIAL | | FINAL | |
|---------------|---------|------|-------|------|---------|------|-------|--|---------|--|-------|--|
| | | | | | | | | | | | | |
| pH | 7.1 | 7.1 | 6.8 | 6.5 | 6.6 | 6.3 | | | | | | |
| TEMP (°C) | 17.8 | 16.0 | 16.7 | 15.8 | 18.1 | 16.4 | | | | | | |
| ECW (µmhos) | 251 | 253 | 264 | 253 | 272 | 260 | | | | | | |
| ORP (mV) | -30 | -7 | -79 | -85 | -31 | -12 | | | | | | |
| DO (mg/L) | 2.11 | 0.99 | 0.93 | 0.19 | 1.29 | 0.62 | | | | | | |
| OTHER (units) | | | | | | | | | | | | |

| | TIME | 11:29 | 11:39 | 1:58 | 2:08 | 10:00 | 10:14 | | |
|---------------------|-------------------|------------------------------------|----------|---------------|-----------------|-------|-------|--|--|
| | METHOD (DHP/CB/B) | CAM PUMP | CAM PUMP | | DHP | | | | |
| RATE (Lpm) | 0.20 | 0.22 | | 0.18 | | | | | |
| VOLUME (L) | 2.0 | 2.20 | | 2.50 | | | | | |
| COLOR | LT. BROWN CLOUDY | LT. BROWN CLOUDY w/ SPOTS OF GREEN | CLEAR | LT. GREY TINT | LT. GREY CLOUDY | → | | | |
| ODOR | LIGHT FUEL/MO | STRONG RUBBER/FUEL | | MED. SULFUR | | | | | |
| INTAKE DEPTH (FEET) | 8.0 | 8.0 | | 16.0 | | | | | |

| | TIME | 11:42 | 2:10 | 10:16 | | |
|-----------------------|--------------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|
| | METHOD (DHP/CB/B) | CAM PUMP | CAM PUMP | | DHP | |
| ANALYTES | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC | TPHg/BTEX; TPHd w/SGC |
| TOTAL DRAWDOWN (FEET) | 0.15 | 2.33 | | 1.05 | | |
| REMARKS | DHP HIT OBSTRUCTION @ 6' | | | | | |

| WELL CONDITION | good | good | good | good | good |
|----------------|------|------|------|------|------|
|----------------|------|------|------|------|------|

WASTE DRUMS

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

FIELD INTRINSICS

PURGE

SAMPLE

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4-27-05**
Global ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **.25/.25**
Travel time: **1.0**
Time on site: **6:30**
Time off site: **3:00**
Mileage: **36**

| WELL No.: | MW41 | | MW42 | | MW43 | | MW44 | | | | |
|------------------------|-------------------------|-----------------------|---------|-----------------------|------------------|-----------------------|-----------------|-----------------------|---------|-------|--|
| DIAMETER (in) | 1.50 | | 1.50 | | 1.50 | | 1.50 | | | | |
| SCREENED INTERVAL (ft) | 16.5-18 | | 12-14.5 | | 16-18 | | 12-15 | | | | |
| DEPTH TO WATER (ft) | 3.78 | | 3.65 | | 2.02 | | 3.44 | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | | | | | 6.7 | 6.4 | 6.7 | 6.5 | | |
| | TEMP (°C) | | | | | 13.0 | 13.1 | 12.3 | 12.8 | | |
| | E _{ow} (µmohs) | | | | | 417 | 383 | 350 | 339 | | |
| | ORP (mV) | | | | | -32 | -38 | -45 | -45 | | |
| | DO (mg/L) | | | | | 1.96 | 0.61 | 1.34 | 0.75 | | |
| OTHER (units) | | | | | _____ | | _____ | | | | |
| PURGE | TIME | | | | 8:11 | 8:19 | 8:45 | 8:55 | | | |
| | METHOD (DHP/CB/B) | | | | CAM PUMP | | CAM PUMP | | | | |
| | RATE (Lpm) | | | | 0.25 | | 0.23 | | | | |
| | VOLUME (L) | | | | 2.0 | | 2.25 | | | | |
| | COLOR | | | | CLEAR | CLEAR | CLEAR | CLEAR | | | |
| | ODOR | | | | MED. RUBBER/FUEL | | MED. SHOE STORE | | | | |
| | INTAKE DEPTH (FEET) | | | | 17.0 | | 14.0 | | | | |
| SAMPLE | TIME | | | | 8:21 | | 8:58 | | | | |
| | METHOD (DHP/CB/B) | | | | CAM PUMP | | CAM PUMP | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | | |
| | TOTAL DRAWDOWN (FEET) | _____ | | _____ | | 8.63 | | 8.18 | | | |
| | REMARKS | _____ | | _____ | | _____ | | _____ | | | |
| WELL CONDITION | good | | good | | good | | good | | | | |
| WASTE DRUMS | | | | | | | | | | | |

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

Project Name: BULK PLANT-HPI (UST)
 Project No.: 4629.03

Tech: SJD
 Date: 4-27-05

| WELL ID: MW28 | | | | | | WELL ID: MW43 | | | | | |
|----------------------|------------|------------|--------------|----------|--------------|---------------|-----|-----------|-------------|----------|-----------|
| METER ACCURACY RANGE | | | | | | | | | | | |
| TIME | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 7:37 | 7.0 | 11.9 | 414 | -44 | 0.45 | 8:13 | 6.5 | 12.8 | 404 | -34 | 1.10 |
| 7:39 | 6.8 | 12.2 | 400 | -54 | 0.45 | 8:15 | 6.4 | 13.0 | 395 | -37 | 0.69 |
| 7:41 | 6.7 | 12.2 | 390 | -61 | 0.49 | 8:17 | 6.4 | 13.1 | 388 | -38 | 0.69 |
| 7:43 | 6.7 | 12.3 | 381 | -64 | 0.76 | 8:19 | 6.4 | 13.1 | 383 | -38 | 0.61 |
| 7:45 | 6.7 | 12.3 | 375 | -65 | 0.87 | | | | | | |
| 7:47 | 6.6 | 12.4 | 369 | -66 | 0.89 | | | | | | |

| WELL ID: MW44 | | | | | | WELL ID: MW25 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 8:47 | 6.6 | 12.6 | 349 | -41 | 1.01 | 9:29 | 6.4 | 15.6 | 288 | -20 | 0.64 |
| 8:49 | 6.6 | 12.8 | 347 | -41 | 1.20 | 9:31 | 6.3 | 15.3 | 288 | -24 | 0.61 |
| 8:51 | 6.5 | 12.8 | 346 | -42 | 0.91 | 9:33 | 6.3 | 15.3 | 285 | -29 | 0.60 |
| 8:53 | 6.5 | 12.8 | 343 | -45 | 0.79 | 9:35 | 6.3 | 15.5 | 284 | -34 | 0.66 |
| 8:55 | 6.5 | 12.8 | 339 | -45 | 0.75 | 9:37 | 6.3 | 15.6 | 284 | -37 | 0.68 |
| | | | | | | 9:39 | 6.3 | 15.8 | 282 | -37 | 0.70 |

| WELL ID: MW33 | | | | | | WELL ID: MW1A | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 10:02 | 6.5 | 16.6 | 279 | -34 | 0.74 | 10:52 | 6.7 | 16.7 | 276 | -48 | 0.61 |
| 10:04 | 6.4 | 16.2 | 278 | -32 | 0.65 | 10:54 | 6.7 | 16.5 | 275 | -54 | 0.53 |
| 10:06 | 6.4 | 16.2 | 273 | -26 | 0.69 | 10:56 | 6.7 | 16.6 | 273 | -59 | 0.47 |
| 10:08 | 6.4 | 16.2 | 269 | -21 | 0.71 | 10:58 | 6.7 | 16.8 | 272 | -62 | 0.39 |
| 10:10 | 6.4 | 16.3 | 267 | -15 | 0.70 | 11:00 | 6.7 | 16.8 | 272 | -63 | 0.38 |
| 10:12 | 6.3 | 16.4 | 264 | -13 | 0.61 | | | | | | |
| 10:14 | 6.3 | 16.4 | 260 | -12 | 0.62 | | | | | | |

Project Name: BULK PLANT - HPI (UST)
 Project No.: 4629.03

Tech: SJD
 Date: 4-27-05

| METER ACCURACY RANGE | | | | | | WELL ID: mw37 | | | | | |
|----------------------|------------|------------|--------------|----------|--------------|---------------|-----|-----------|-------------|----------|-----------|
| WELL ID: mw29 | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| 11:31 | 7.1 | 16.8 | 252 | -20 | 1.52 | 12:03 | 6.2 | 16.3 | 291 | 20 | 0.96 |
| 11:33 | 7.1 | 16.0 | 254 | -13 | 1.44 | 12:05 | 6.2 | 16.1 | 291 | 17 | 0.80 |
| 11:35 | 7.1 | 15.9 | 254 | -9 | 1.23 | 12:07 | 6.2 | 16.2 | 289 | 16 | 0.70 |
| 11:37 | 7.1 | 15.9 | 253 | -7 | 1.00 | 12:09 | 6.2 | 16.4 | 286 | 15 | 0.66 |
| 11:39 | 7.1 | 16.0 | 253 | -7 | 0.99 | | | | | | |

| WELL ID: mw38 | | | | | | WELL ID: mw39 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 2:31 | 6.4 | 16.8 | 273 | -22 | 0.88 | 1:04 | 6.5 | 16.8 | 284 | -25 | 0.70 |
| 2:33 | 6.4 | 16.9 | 273 | -23 | 0.75 | 1:06 | 6.5 | 16.3 | 285 | -28 | 0.43 |
| 2:35 | 6.4 | 16.9 | 274 | -17 | 0.70 | 1:08 | 6.4 | 15.7 | 286 | -30 | 0.39 |
| 2:37 | 6.3 | 16.8 | 274 | -9 | 0.62 | 1:10 | 6.4 | 16.0 | 283 | -31 | 0.33 |
| 2:39 | 6.3 | 16.6 | 276 | -6 | 0.54 | | | | | | |
| 2:41 | 6.3 | 16.6 | 276 | -5 | 0.49 | | | | | | |

| WELL ID: mw40 | | | | | | WELL ID: mw30 | | | | | |
|---------------|-----|-----------|-------------|----------|-----------|---------------|-----|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 2:31 | 6.5 | 16.7 | 276 | -34 | 0.48 | 2:00 | 6.7 | 16.1 | 262 | -84 | 0.43 |
| 2:33 | 6.4 | 16.3 | 275 | -37 | 0.46 | 2:02 | 6.6 | 15.7 | 261 | -87 | 0.30 |
| 2:35 | 6.4 | 16.3 | 273 | -39 | 0.45 | 2:04 | 6.6 | 15.6 | 259 | -88 | 0.25 |
| 2:37 | 6.4 | 16.2 | 273 | -39 | 0.36 | 2:06 | 6.5 | 15.7 | 257 | -86 | 0.21 |
| | | | | | | 2:08 | 6.5 | 15.8 | 253 | -85 | 0.19 |



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4/27/05**
Global ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD JLS**
Mob/Demob time: **.25/25**
Travel time: **1.0**
Time on site: **6:30 am**
Time off site: **3:00 pm**
Mileage: **36**

| WELL No.: | | MW23 | | MW24 | | MW25 | | MW27 | | MW28 | |
|------------------------|-------------------------|-----------------------|------------|-----------------------|---------|-----------------------|---------|-----------------------|----------|-----------------------|--|
| DIAMETER (in) | | 2.00 | | 2.00 | | 2.00 | | 2.00 | | 2.00 | |
| SCREENED INTERVAL (ft) | | 5-10 | | 5-10 | | 5-10 | | 5-10 | | 5-10 | |
| DEPTH TO WATER (ft) | | 5.90 | | 5.58 | | | | 4.50 | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | | 6.82 | 6.84 | 6.68 | 6.61 | | | 6.70 | 6.67 | |
| | TEMP (°C) | | 13.4 | 14.1 | 14.6 | 14.5 | | | 16.5 | 18.1 | |
| | E _{sw} (µmhos) | | 232 | 233 | 310 | 319 | | | 564 | 503 | |
| | ORP (mV) | | -14 | 10 | -12 | 22 | | | Ur | Ur | |
| | DO (mg/L) | | 1.26 | 0.58 | 1.12 | 0.41 | | | 1.01 | 0.34 | |
| | OTHER (units) | | | | | | | | | | |
| PURGE | TIME | 10:12 | 10:22 | 12:30 | 12:44 | | | 1:17 | 1:29 | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | | | DHP | | | |
| | RATE (Lpm) | 0.20 | | 0.21 | | | | 0.21 | | | |
| | VOLUME (L) | 2.0 | | 3.0 | | | | 2.5 | | | |
| | COLOR | Clear | Milky Gray | Clear | Clear | | | Clear | L+ Brown | | |
| | ODOR | Slight | | None | | | | Slight | | | |
| | INTAKE DEPTH (FEET) | 8.00 | | 8.00 | | | | 7.50 | | | |
| SAMPLE | TIME | 10:27 | | 10:47 | | | | 1:34 | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | | | DHP | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | |
| | TOTAL DRAWDOWN (FEET) | 1.65 | | 0.26 | | | | 2.15 | | | |
| REMARKS | | | | | | | | | | | |
| WELL CONDITION | Good | | Good | | | | Good | | | | |
| WASTE DRUMS | | | | | | | | | | | |



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4/27/05**
Goibal ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD JLS**
Mob/Demob time: **25/25**
Travel time: **1.0**
Time on site: **6:30 am**
Time off site: **3:00 pm**
Mileage: **36**

| WELL No.: | | MW29 | | MW30 | | MW33 | | MW34 | | MW35 | | |
|------------------------|-------------------------|-----------------------|-------|-----------------------|-------|-----------------------|-------|-----------------------|------------|-----------------------|-------|-------|
| DIAMETER (in) | | 2.00 | | 2.00 | | 1.50 | | 1.50 | | 1.50 | | |
| SCREENED INTERVAL (ft) | | 5-10 | | 5-10 | | 14-17.5 | | 14-18 | | 17-20 | | |
| DEPTH TO WATER (ft) | | | | | | | | 6.59 | | 6.21 | | |
| FIELD INTRINSICS | | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | | | | | | | 6.75 | 6.51 | 6.54 | 6.54 | |
| | TEMP (°C) | | | | | | | 14.3 | 15.7 | 15.8 | 16.0 | |
| | E _{ow} (µmhos) | | | | | | | 392 | 324 | 399 | 385 | |
| | ORP (mV) | | | | | | | Ur | -94 | -98 | -73 | |
| | DC (mg/L) | | | | | | | 1.85 | 0.51 | 1.09 | 0.33 | |
| | OTHER (units) | | | | | | | _____ | | _____ | | |
| | PURGE | TIME | | | | | | | 9:39 | 9:49 | 11:55 | 12:09 |
| | | METHOD (DHP/CB/B) | | | | | | | DHP | | DHP | |
| | | RATE (Lpm) | | | | | | | 0.15 | | 0.21 | |
| VOLUME (L) | | | | | | | | 1.5 | | 3.0 | | |
| COLOR | | | | | | | | Clear | Milky Gray | Black | Black | |
| ODOR | | | | | | | | Mild Pond water | | Rotten Eggs | | |
| SAMPLE | INTAKE DEPTH (FEET) | | | | | | | 16.00' | | 18.50 | | |
| | TIME | | | | | | | 9:55 | | 12:13 | | |
| | METHOD (DHP/CB/B) | | | | | | | DHP | | DHP | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | |
| | TOTAL DRAWDOWN (FEET) | | | | | | | 2.42 | | 1.10 | | |
| REMARKS | | | | | | | _____ | | _____ | | | |
| WELL CONDITION | | | | | | | Good | | Good | | | |
| WASTE DRUMS | | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4/27/05**
Global ID No.: **T0602300107**
PM: **CJW**

Tech: **SHD JLS**
Mob/Demob time: **25/25**
Travel time: **1.0**
Time on site: **6:30 am**
Time off site: **3:00 pm**
Mileage: **36**

| WELL No.: | MW36 | MW37 | MW38 | MW39 | MW40 | | | | | |
|------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|-------|---------|-------|
| DIAMETER (in) | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | | | | | |
| SCREENED INTERVAL (ft) | 13-14.5 | 17.25-19 | 12-14 | 17.75-19 | 13.25-16 | | | | | |
| DEPTH TO WATER (ft) | 5.80 | | | | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL |
| | pH | 6.62 | 6.58 | | | | | | | |
| | TEMP (°C) | 14.4 | 15.8 | | | | | | | |
| | E _{ow} (µmhos) | 367 | 381 | | | | | | | |
| | ORP (mV) | -99 | -74 | | | | | | | |
| | DO (mg/L) | 0.97 | 0.38 | | | | | | | |
| | OTHER (units) | | | | | | | | | |
| PURGE | TIME | 11:08 | 11:28 | | | | | | | |
| | METHOD (DHP/CB/B) | DHP | | | | | | | | |
| | RATE (Lpm) | 0.15 | | | | | | | | |
| | VOLUME (L) | 3.0 | | | | | | | | |
| | COLOR | Clear | Black | | | | | | | |
| | ODOR | Rotten Eggs | | | | | | | | |
| | INTAKE DEPTH (FEET) | 13.50 | | | | | | | | |
| SAMPLE | TIME | 11:32 | | | | | | | | |
| | METHOD (DHP/CB/B) | DHP | | | | | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | | | |
| | TOTAL DRAWDOWN (FEET) | 1.70 | | | | | | | | |
| | REMARKS | | | | | | | | | |
| WELL CONDITION | good | | | | | | | | | |
| WASTE DRUMS | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Bulk Plant - HPI (UST)**
Project No.: **4629.03**
Date: **4-27-05**
Global ID No.: **T0602300107**
PM: **CJW**

Tech: **SJD**
Mob/Demob time: **1.25/1.25**
Travel time: **1.0**
Time on site: **6:30**
Time off site: **3:00**
Mileage: **36**

| WELL No.: | MW36 | | MW37 | | MW38 | | MW39 | | MW40 | |
|------------------------|-----------------------|-------|-----------------------|-------|-----------------------|--------|-----------------------|--------|-----------------------|-------|
| DIAMETER (in) | 1.50 | | 1.50 | | 1.50 | | 1.50 | | 1.50 | |
| SCREENED INTERVAL (ft) | 13-14.5 | | 17.25-19 | | 12-14 | | 17.75-19 | | 13.25-16 | |
| DEPTH TO WATER (ft) | 5.80 | | 2.64 | | 2.80 | | 2.18 | | 3.05 | |
| | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL |
| FIELD INTRINSICS | pH | | 6.4 | 6.2 | 6.6 | 6.3 | 6.6 | 6.4 | 6.7 | 6.4 |
| | TEMP (°C) | | 16.8 | 16.4 | 17.1 | 16.6 | 17.1 | 16.0 | 17.6 | 16.2 |
| | ECW (µmhos) | | 287 | 286 | 269 | 276 | 279 | 283 | 274 | 273 |
| | ORP (mV) | | 20 | 15 | -21 | -5 | -23 | -31 | -37 | -39 |
| | DO (mg/L) | | 2.11 | 0.66 | 1.02 | 0.49 | 1.11 | 0.33 | 0.97 | 0.36 |
| | OTHER (units) | | _____ | | _____ | | _____ | | _____ | |
| PURGE | TIME | | 12:01 | 12:09 | 12:29 | 12:41 | 1:02 | 1:10 | 1:29 | 1:37 |
| | METHOD (DHP/CB/B) | | DHP | | DHP | | DHP | | DHP | |
| | RATE (Lpm) | | 0.18 | | 0.17 | | 0.20 | | 0.20 | |
| | VOLUME (L) | | 1.40 | | 2.0 | | 1.60 | | 1.60 | |
| | COLOR | | CLEAR | CLEAR | LT. BROWN CLOUDY | CLOUDY | CLOUDY | CLOUDY | CLEAR | CLEAR |
| | ODOR | | SLIGHT ORGANIC | | SLIGHT SULFUR | | SLIGHT SWEET? | | LIGHT SULFUR | |
| | INTAKE DEPTH (FEET) | | 18.25 | | 13.0 | | 18.25 | | 14.5 | |
| | REMARKS | | _____ | | _____ | | _____ | | _____ | |
| SAMPLE | TIME | | 12:11 | | 12:43 | | 1:12 | | 1:39 | |
| | METHOD (DHP/CB/B) | | DHP | | DHP | | DHP | | DHP | |
| | ANALYTES | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | |
| | TOTAL DRAWDOWN (FEET) | | _____ | | 3.62 | | 1.92 | | 5.62 | |
| | REMARKS | | _____ | | _____ | | _____ | | _____ | |
| WELL CONDITION | | good | | good | | good | | good | | |
| WASTE DRUMS | | _____ | | _____ | | _____ | | _____ | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



LACO ASSOCIATES

CONSULTING ENGINEERS

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Project Name: **Bulk Plant - HPI (UST)**
 Project No.: **4629.03**
 Date: **4/27/05**
 Golbal ID No.: **T0602300107**
 PM: **CJW**

Tech: **SJD JLS**
 Mob/Demob time: **25/25**
 Travel time: **1.0**
 Time on site: **6:30 a.m.**
 Time off site: **3:00 p.m.**
 Mileage: **36**

| WELL No.: | | MW41 | | MW42 | | MW43 | | MW44 | | | |
|------------------------|-------------------------|-----------------------|---------|-----------------------|----------------------|-----------------------|---------|-----------------------|---------|-------|--|
| DIAMETER (in) | | 1.50 | | 1.50 | | 1.50 | | 1.50 | | | |
| SCREENED INTERVAL (ft) | | 16.5-18 | | 12-14.5 | | 16-18 | | 12-15 | | | |
| DEPTH TO WATER (ft) | | 3.78 | | 3.65 | | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | 6.56 | 6.41 | 6.74 | 6.63 | | | | | | |
| | TEMP (°C) | 16.7 | 17.8 | 16.5 | 17.6 | | | | | | |
| | E _{ow} (µmhos) | 490 | 506 | 482 | 479 | | | | | | |
| | ORP (mV) | -54 | -51 | -78 | -75 | | | | | | |
| | DO (mg/L) | 0.80 | 0.30 | 0.83 | 0.33 | | | | | | |
| OTHER (units) | | | | | | | | | | | |
| PURGE | TIME | 1:50 | 2:00 | 2:21 | 2:31 | | | | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | | | | | | |
| | RATE (Lpm) | 0.15 | | 0.15 | | | | | | | |
| | VOLUME (L) | 1.5 | | 1.5 | | | | | | | |
| | COLOR | Clear | Clear | Clear | L ⁺ Brown | | | | | | |
| | ODOR | Slight | | Dirt | | | | | | | |
| | INTAKE DEPTH (FEET) | 17.25 | | 13.25 | | | | | | | |
| SAMPLE | TIME | 2:08 | | 2:39 | | | | | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | | | | | | |
| | ANALYTES | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | TPHg/BTEX; TPHd w/SGC | | | |
| | TOTAL DRAWDOWN (FEET) | 3.03 | | 5.48 | | | | | | | |
| | REMARKS | | | | | | | | | | |
| WELL CONDITION | Good | | Good | | | | | | | | |
| WASTE DRUMS | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

Project Name: Bulk Plant (CST)
Project No.: 4629.03

Tech: JLS
Date: 4/27/05

| METER ACCURACY RANGE | | | | | | WELL ID: <u>MW #23</u> | | | | | |
|------------------------|------------|------------|--------------|----------|--------------|------------------------|------|-----------|-------------|----------|-----------|
| WELL ID: <u>MW #34</u> | +/- 0.2 pH | +/- 0.5 °C | +/- 20 µmohs | +/- 2 mv | +/- 0.3 mg/L | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | | | | | | |
| | | | | | | 10:14 | 6.78 | 15.2 | 230 | -3 | 2.04 |
| 9:41 | 6.67 | 16.3 | 344 | Ur | 2.91 | 10:16 | 6.78 | 15.0 | 232 | 0 | 0.86 |
| 9:43 | 6.53 | 16.5 | 328 | -98 | 1.57 | 10:18 | 6.80 | 14.6 | 232 | 4 | 0.59 |
| 9:45 | 6.52 | 15.8 | 327 | -97 | 0.62 | 10:20 | 6.82 | 14.1 | 231 | 8 | 0.53 |
| 9:47 | 6.50 | 15.6 | 327 | -96 | 0.59 | 10:22 | 6.84 | 14.1 | 233 | 10 | 0.58 |
| 9:49 | 6.51 | 15.7 | 324 | -94 | 0.51 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| WELL ID: <u>MW #36</u> | | | | | | WELL ID: <u>MW #24</u> | | | | | |
|------------------------|------|-----------|-------------|----------|-----------|------------------------|------|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 11:10 | 6.59 | 17.0 | 378 | Ur | 1.48 | 12:32 | 6.62 | 16.8 | 312 | 2 | 1.10 |
| 11:12 | 6.59 | 17.1 | 379 | Ur | 0.72 | 12:34 | 6.62 | 15.6 | 317 | 7 | 0.70 |
| 11:14 | 6.59 | 16.9 | 366 | Ur | 0.74 | 12:36 | 6.61 | 15.4 | 317 | 11 | 0.63 |
| 11:16 | 6.59 | 16.6 | 356 | -96 | 0.52 | 12:38 | 6.61 | 14.9 | 317 | 14 | 0.58 |
| 11:18 | 6.58 | 16.1 | 341 | -91 | 0.50 | 12:40 | 6.61 | 15.0 | 318 | 17 | 0.53 |
| 11:20 | 6.57 | 16.2 | 340 | -85 | 0.48 | 12:42 | 6.61 | 14.4 | 318 | 20 | 0.42 |
| 11:22 | 6.57 | 16.1 | 335 | -80 | 0.43 | 12:44 | 6.61 | 14.5 | 319 | 22 | 0.41 |
| 11:24 | 6.58 | 16.1 | 330 | -77 | 0.49 | | | | | | |
| 11:26 | 6.58 | 15.7 | 331 | -75 | 0.39 | | | | | | |
| 11:28 | 6.58 | 15.8 | 327 | -74 | 0.38 | | | | | | |

| WELL ID: <u>MW #35</u> | | | | | | WELL ID: <u>MW #27</u> | | | | | |
|------------------------|------|-----------|-------------|----------|-----------|------------------------|------|-----------|-------------|----------|-----------|
| TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) | TIME | pH | TEMP (°C) | Ecw (µmohs) | ORP (mV) | DO (mg/L) |
| 11:57 | 6.66 | 17.5 | 419 | Ur | 0.49 | 1:19 | 6.67 | 18.4 | 536 | Ur | 1.33 |
| 11:59 | 6.62 | 16.5 | 413 | -98 | 0.50 | 1:21 | 6.67 | 17.5 | 529 | Ur | 0.58 |
| 12:01 | 6.59 | 16.6 | 406 | -91 | 0.48 | 1:23 | 6.68 | 17.0 | 525 | Ur | 0.42 |
| 12:03 | 6.56 | 16.4 | 400 | -84 | 0.41 | 1:25 | 6.67 | 17.5 | 520 | Ur | 0.36 |
| 12:05 | 6.55 | 16.3 | 394 | -79 | 0.37 | 1:27 | 6.67 | 18.1 | 511 | Ur | 0.38 |
| 12:07 | 6.54 | 16.1 | 388 | -75 | 0.34 | 1:29 | 6.67 | 18.1 | 503 | Ur | 0.34 |
| 12:09 | 6.54 | 16.0 | 385 | -73 | 0.33 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



Project Name: Bulk Plant (UST)
Project No.: 4629.03

Tech: JLS
Date: 4/27/05

| WELL ID: #15 | | WELL ID: #16 | | WELL ID: #19 | | WELL ID: #20 | | WELL ID: #34 | | WELL ID: #23 | |
|------------------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
| TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) |
| 08:45 | 12.18 | 8:45 | 12.18 | 7:50 | 13.85 | 8:19 | 9.87 | 9:24 | 6.70 | 10:00 | 5.90 |
| 08:50 | 12.08 | 8:50 | 12.08 | 7:55 | 13.85 | 8:24 | 9.95 | 9:29 | 6.69 | 10:05 | 5.90 |
| 08:55 | 12.07 | 8:55 | 12.07 | | | 8:29 | 9.96 | | | | |
| NO ROOM TO SET DTW METER DOWN WELL | | | | | | | | | | | |

| WELL ID: MW#36 | | WELL ID: MW#35 | | WELL ID: MW#24 | | WELL ID: MW#27 | | WELL ID: MW#41 | | WELL ID: MW#42 | |
|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| TIME | DTW (ft) |
| 10:50 | 5.80 | 10:51 | 5.85 | 10:52 | 5.57 | 1:05 | 4.51 | 1:06 | 3.77 | 1:07 | 3.64 |
| 10:55 | 5.80 | 11:40 | 6.00 | 12:23 | 5.58 | 1:10 | 4.50 | 1:42 | 3.78 | 2:15 | 3.65 |
| | | 11:45 | 6.01 | | | | | | | | |

| WELL ID: | | WELL ID: | | WELL ID: | | WELL ID: | | WELL ID: | | WELL ID: | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| TIME | DTW (ft) |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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WASTE DISPOSAL FORM

Project No. 4629.03

Date 4-27-05

Location FORMER SHELL BULK PLANT

By SJD

Number of Soil Drums 0

Number of Water Drums 1

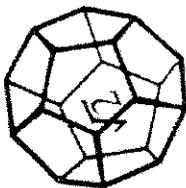
Please Insert a Check Mark

Condition of Drums

| | Yes | No | Good | Fair | Deteriorated |
|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Soil DOT drums | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water DOT drums | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Other _____

* Please describe location of all drums with references with the site, or write any comments, below.



NORTH COAST LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

Attention: Accounts Payable
 Results & Invoice to: LACO ASSOCIATES
 Address: 21 West Fourth Street, Eureka CA 95501
 Phone: (707) 443-5054
 Copies of Report to: LACO; Chris Wait
 Sampler (Sign & Print): SJD 

PROJECT INFORMATION
 Project Number: 4629.03
 Project Name: HPI - Bulk Plant-UST
 Purchase Order Number: task 3023

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX |
|--------|-------------|---------|------|--------|
| | 4629-MW29-W | 4-27-05 | AM | GW |
| | 4629-MW30-W | | | |
| | 4629-MW33-W | | | |
| | 4629-MW34-W | | | |
| | 4629-MW35-W | | | |
| | 4629-MW36-W | | | |
| | 4629-MW37-W | | | |
| | 4629-MW38-W | | | |
| | 4629-MW39-W | | | |
| | 4629-MW40-W | | PM | |

| ANALYSIS | TPH _g /BTEX | TPH _d w/SGC | PRESERVATIVE |
|----------|------------------------|------------------------|--------------|
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |

LABORATORY NUMBER: _____

TAT: 24 Hr 48 Hr 5 Day 15-7 Day
 STD (2-3 Wk) Other: _____
 PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms
 Preliminary: FAX Verbal By: _____
 Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
 13—brass tube; 14—other
 PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
 d—Na₂S₂O₅; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
 GEOTRACKER
Cooler temp 30

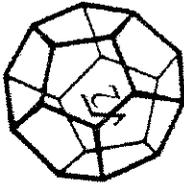
SAMPLE DISPOSAL
 NCL Disposal of Non-Contaminated
 Return Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
 SHIPPED VIA: UPS Air-Ex Fed-Ex Bus /Hand

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|---|-----------|--|-----------|
|  STEVE DAVIS | 4-27-05 |  | 4/27/05 |
| | 3:52 PM | | |

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



NORTH COAST LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Chain of Custody

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street, Eureka, CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD *[Signature]*

PROJECT INFORMATION
Project Number: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3023

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|--------|-------------|---------|------|---------|
| | 4629-MW41-W | 4-27-05 | AM | GW |
| | 4629-MW42-W | | | |
| | 4629-MW43-W | | PM | |
| | 4629-MW44-W | | | |

| ANALYSIS | TPH/g/BTEX | TPHd w/SGC | CONTAINER PRESERVATIVE | DATE/TIME |
|----------|------------|------------|------------------------|-----------|
| | 3 | 1 | 9 | |
| | 3 | 1 | | |
| | 3 | 1 | | |
| | 3 | 1 | | |
| | 3 | 1 | | |

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|--------------------------------|--------------------|--------------------|-----------|
| <i>[Signature]</i> STEVE DAVIS | 4-27-05 3:52 pm | <i>[Signature]</i> | 4/27/05 |

LABORATORY NUMBER: _____

TAT: 24 Hr 48 Hr 5 Day 5-7 Day
 STD (2-3 WK) Other: _____

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms
Preliminary: FAX Verbal By: _____
Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
d—Na₂S₂O₅; e—NaOH; f—C₂H₃O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
Cosco Temp 8

SAMPLE DISPOSAL
 NCL Disposal of Non-Contaminated
 Return Pickup

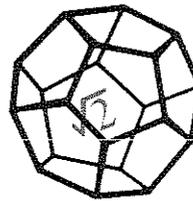
CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 3

RECEIVED
LACO ASSOCIATES
JAN 25 2005
BY: JG



NORTH COAST
LABORATORIES LTD.

January 24, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

DRG
CJW
[Signature]

Order No.: 0501204
Invoice No.: 47690
PO No.: TASK 3020
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, FORMER SHELL BULK PLANT-PFP

SAMPLE IDENTIFICATION

| Fraction | Client Sample Description |
|----------|---------------------------|
| 01A | 4629-MW27-W |
| 01D | 4629-MW27-W |
| 01E | 4629-MW27-W (Dissolved) |
| 02A | 4629-MW28-W |
| 02D | 4629-MW28-W |
| 02E | 4629-MW28-W (Dissolved) |
| 03A | 4629-MW30-W |
| 03D | 4629-MW30-W |
| 03E | 4629-MW30-W (Dissolved) |
| 04A | 4629-MW34-W |
| 04D | 4629-MW34-W |
| 04E | 4629-MW34-W (Dissolved) |
| 05A | 4629-MW38-W |
| 05D | 4629-MW38-W |
| 05E | 4629-MW38-W (Dissolved) |
| 06A | 4629-MW43-W |
| 06D | 4629-MW43-W |
| 06E | 4629-MW43-W (Dissolved) |
| 07A | 4629-MW44-W |
| 07D | 4629-MW44-W |
| 07E | 4629-MW44-W (Dissolved) |
| 08A | 4629-QCTB-W |

ND = Not Detected at the Reporting Limit
Limit = Reporting Limit
All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

[Signature]
Laboratory Supervisor(s)

[Signature]
QA Unit

[Signature]
Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: LACO Associates
Project: 4629.03, FORMER SHELL BULK PLANT-PF
Lab Order: 0501204

CASE NARRATIVE

TPH as Diesel with Silica Gel Cleanup:

Samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W and 4629-MW44-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. These samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

TPH as Gasoline:

Sample 4629-MW34-W appears to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported result represents the amount of material in the gasoline range.

The gasoline values for samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW43-W and 4629-MW44-W include the reported gasoline components in addition to other peaks in the gasoline range.

The gasoline value for sample 4629-MW38-W includes the reported gasoline components and additives in addition to other peaks in the gasoline range.

BTEX:

Some reporting limits were raised for samples 4629-MW27-W, 4629-MW28-W, 4629-MW43-W and 4629-MW44-W due to matrix interference.

Sample 4629-MW34-W was diluted and the reporting limits raised additionally due to matrix interference.

The surrogate for sample 4629-MW43-W could not be quantified due to a large amount of early eluting material.

Suggest the confirmation of the positive MTBE result for sample 4629-MW38-W by GC/MS.

Sample 4629-MW30-W was reported as ND with a dilution due to matrix interference.

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-01A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 25 | µg/L | 1.0 | | 1/20/05 |
| Benzene | 310 | 25 | µg/L | 50 | | 1/20/05 |
| Toluene | 7.6 | 5.0 | µg/L | 10 | | 1/20/05 |
| Ethylbenzene | 9.9 | 5.0 | µg/L | 10 | | 1/20/05 |
| m,p-Xylene | ND | 6.0 | µg/L | 1.0 | | 1/20/05 |
| o-Xylene | ND | 2.0 | µg/L | 1.0 | | 1/20/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 90.7 | 85-115 | % Rec | 10 | | 1/20/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 1,300 | 50 | µg/L | 1.0 | | 1/20/05 |

Client Sample ID: 4629-MW27-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-01D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 98 | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 81.6 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW27-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-01E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 16,000 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW28-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-02A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 20 | µg/L | 1.0 | | 1/19/05 |
| Benzene | 150 | 50 | µg/L | 100 | | 1/19/05 |
| Toluene | 4.9 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Ethylbenzene | 7.6 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| m,p-Xylene | 2.1 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| o-Xylene | 1.2 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 95.7 | 85-115 | % Rec | 100 | | 1/19/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 760 | 50 | µg/L | 1.0 | | 1/19/05 |

Client Sample ID: 4629-MW28-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-02D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 84 | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 93.9 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW28-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-02E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 2,900 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW30-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-03A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 300 | µg/L | 100 | | 1/20/05 |
| Benzene | 8,100 | 500 | µg/L | 1,000 | | 1/20/05 |
| Toluene | 310 | 50 | µg/L | 100 | | 1/20/05 |
| Ethylbenzene | 1,200 | 500 | µg/L | 1,000 | | 1/20/05 |
| m,p-Xylene | 780 | 50 | µg/L | 100 | | 1/20/05 |
| o-Xylene | 140 | 50 | µg/L | 100 | | 1/20/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 88.8 | 85-115 | % Rec | 100 | | 1/20/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 25,000 | 5,000 | µg/L | 100 | | 1/20/05 |

Client Sample ID: 4629-MW30-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-03D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 600 | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 86.8 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW30-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-03E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 17,000 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW34-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-04A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 180 | µg/L | 10 | | 1/19/05 |
| Benzene | 170 | 25 | µg/L | 50 | | 1/19/05 |
| Toluene | 69 | 25 | µg/L | 50 | | 1/19/05 |
| Ethylbenzene | 130 | 25 | µg/L | 50 | | 1/19/05 |
| m,p-Xylene | 230 | 25 | µg/L | 50 | | 1/19/05 |
| o-Xylene | 65 | 25 | µg/L | 50 | | 1/19/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 102 | 85-115 | % Rec | 50 | | 1/19/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 5,300 | 500 | µg/L | 10 | | 1/19/05 |

Client Sample ID: 4629-MW34-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-04D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 380 | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 84.4 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW34-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-04E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 3,900 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05

WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-05A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 17 | 3.0 | µg/L | 1.0 | | 1/19/05 |
| Benzene | 80 | 5.0 | µg/L | 10 | | 1/19/05 |
| Toluene | 2.3 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Ethylbenzene | 2.1 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| m,p-Xylene | 1.5 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| o-Xylene | 0.53 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 93.7 | 85-115 | % Rec | 10 | | 1/19/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 270 | 50 | µg/L | 1.0 | | 1/19/05 |

Client Sample ID: 4629-MW38-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-05D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 100 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW38-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-05E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 210 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW43-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-06A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 100 | µg/L | 1.0 | | 1/19/05 |
| Benzene | ND | 6.0 | µg/L | 1.0 | | 1/19/05 |
| Toluene | ND | 2.0 | µg/L | 1.0 | | 1/19/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| o-Xylene | 0.60 | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Surrogate: Cis-1,2-Dichloroethylene | NQ | 85-115 | % Rec | 1.0 | | 1/19/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 350 | 50 | µg/L | 1.0 | | 1/19/05 |

Client Sample ID: 4629-MW43-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-06D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 85.1 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW43-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-06E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | ND | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-07A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 80 | µg/L | 1.0 | | 1/20/05 |
| Benzene | 2,200 | 500 | µg/L | 1,000 | | 1/20/05 |
| Toluene | 7.1 | 0.50 | µg/L | 1.0 | | 1/20/05 |
| Ethylbenzene | 1.6 | 0.50 | µg/L | 1.0 | | 1/20/05 |
| m,p-Xylene | 4.0 | 0.50 | µg/L | 1.0 | | 1/20/05 |
| o-Xylene | 5.0 | 0.50 | µg/L | 1.0 | | 1/20/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 90.5 | 85-115 | % Rec | 1,000 | | 1/20/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 4,000 | 500 | µg/L | 10 | | 1/20/05 |

Client Sample ID: 4629-MW44-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-07D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 57 | 50 | µg/L | 1.0 | 1/19/05 | 1/20/05 |
| Surrogate: N-Tricosane | 73.4 | 34-145 | % Rec | 1.0 | 1/19/05 | 1/20/05 |

Client Sample ID: 4629-MW44-W (Dissolved)

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-07E

Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Iron | 4,600 | 100 | µg/L | 1.0 | 1/11/05 | 1/14/05 |

Date: 24-Jan-05
WorkOrder: 0501204

ANALYTICAL REPORT

Client Sample ID: 4629-QCTB-W

Received: 1/11/05

Collected: 1/11/05 0:00

Lab ID: 0501204-08A

Matrix: Trip Blank

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 1/19/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 1/19/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 95.7 | 85-115 | % Rec | 1.0 | | 1/19/05 |

Test Name: TPH as Gasoline

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 1/19/05 |

CLIENT: LACO Associates
Work Order: 0501204
Project: 4629.03, FORMER SHELL BULK PLANT-PFP
QC SUMMARY REPORT
 Method Blank

Sample ID: **MB-1/19/05** Batch ID: **R32950** Test Code: **BTXEW** Units: **µg/L** Analysis Date: **1/19/05 5:53:08 PM** Prep Date:
 Client ID: Run ID: **ORGC8_050119B** SeqNo: **477845**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|--------------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| MTBE | 1.215 | 3.0 | | | | | | | | | J |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | 0.2428 | 0.50 | | | | | | | | | J |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Cis-1,2-Dichloroethylene | 0.880 | 0.10 | 1.00 | 0 | 88.0% | 85 | 115 | 0 | | | |

Sample ID: **MB-12793P** Batch ID: **12793** Test Code: **ICPX** Units: **µg/L** Analysis Date: **1/14/05 2:04:00 PM** Prep Date: **1/11/05**
 Client ID: Run ID: **INICP1_050114A** SeqNo: **476806**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| Iron | ND | 100 | | | | | | | | | |

Sample ID: **MB-12813** Batch ID: **12813** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date: **1/20/05 5:19:50 PM** Prep Date: **1/19/05**
 Client ID: Run ID: **ORGC5_050120A** SeqNo: **477986**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | 29.43 | 50 | | | | | | | | | J |
| N-Tricosane | 53.6 | 0.10 | 50.0 | 0 | 107% | 34 | 145 | 0 | | | |

Sample ID: **MB-1/19/05** Batch ID: **R32948** Test Code: **TPHCGW** Units: **µg/L** Analysis Date: **1/19/05 5:53:08 PM** Prep Date:
 Client ID: Run ID: **ORGC8_050119A** SeqNo: **477824**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | ND | 50 | | | | | | | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 24-Jan-05

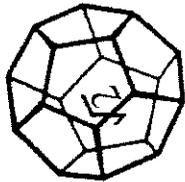
CLIENT: LACO Associates
Work Order: 0501204
Project: 4629.03, FORMER SHELL BULK PLANT-PFP
QC SUMMARY REPORT
 Laboratory Control Spike

| Sample ID: | LCS-05043 | Batch ID: | R32950 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 1/19/05 2:58:58 PM | Prep Date: | |
|--------------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|----------------|--------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050119B | SeqNo: | 477843 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 44.56 | 3.0 | 40.0 | 0 | 111% | 85 | 115 | 0 | | | |
| Benzene | 5.062 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 0 | | | |
| Toluene | 5.205 | 0.50 | 5.00 | 0 | 104% | 85 | 115 | 0 | | | |
| Ethylbenzene | 5.144 | 0.50 | 5.00 | 0 | 103% | 85 | 115 | 0 | | | |
| m,p-Xylene | 10.69 | 0.50 | 10.0 | 0 | 107% | 85 | 115 | 0 | | | |
| o-Xylene | 5.364 | 0.50 | 5.00 | 0 | 107% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.12 | 0.10 | 1.00 | 0 | 112% | 85 | 115 | 0 | | | |

| Sample ID: | LCSD-05043 | Batch ID: | R32950 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 1/19/05 3:33:50 PM | Prep Date: | |
|--------------------------|------------|-----------|---------------|-------------|--------|----------|-----------|----------------|--------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050119B | SeqNo: | 477844 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 43.65 | 3.0 | 40.0 | 0 | 109% | 85 | 115 | 44.6 | 2.06% | 15 | |
| Benzene | 5.102 | 0.50 | 5.00 | 0 | 102% | 85 | 115 | 5.06 | 0.780% | 15 | |
| Toluene | 5.133 | 0.50 | 5.00 | 0 | 103% | 85 | 115 | 5.20 | 1.39% | 15 | |
| Ethylbenzene | 5.157 | 0.50 | 5.00 | 0 | 103% | 85 | 115 | 5.14 | 0.252% | 15 | |
| m,p-Xylene | 10.67 | 0.50 | 10.0 | 0 | 107% | 85 | 115 | 10.7 | 0.168% | 15 | |
| o-Xylene | 5.293 | 0.50 | 5.00 | 0 | 106% | 85 | 115 | 5.36 | 1.34% | 15 | |
| Cis-1,2-Dichloroethylene | 1.05 | 0.10 | 1.00 | 0 | 105% | 85 | 115 | 1.12 | 6.83% | 15 | |

| Sample ID: | LCS-12793P | Batch ID: | 12793 | Test Code: | ICPX | Units: | µg/L | Analysis Date: | 1/14/05 2:08:00 PM | Prep Date: | 1/11/05 |
|------------|------------|-----------|----------------|-------------|--------|----------|-----------|----------------|--------------------|------------|---------|
| Client ID: | | Run ID: | INICP1_050114A | SeqNo: | 476807 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron | 469.4 | 100 | 500 | 0 | 93.9% | 85 | 115 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank



NORTH COAST LABORATORIES LTD.

5680 West End Road · Arcata · CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

0501204

LABORATORY NUMBER: 0501204

Attention: Accounts Payable
 Results & Invoice to: LACO ASSOCIATES c/o Christopher Watt
 Address: 21 West Fourth Street, Eureka CA
 Phone: (707) 443-5054
 Copies of Report to:
 Sampler (Sign & Print): SJD

PROJECT INFORMATION
 Project Number: 4629.03
 Project Name: FORMER SHELL BULK PLANT - PFP
 Purchase Order Number: TASK 3020

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|--------|-------------|---------|------|---------|
| | 4629-MW27-W | 1-11-05 | AM | GW |
| | 4629-MW28-W | | | |
| | 4629-MW30-W | | | |
| | 4629-MW34-W | | | |
| | 4629-MW38-W | | | |
| | 4629-MW43-W | | | |
| | 4629-MW44-W | | | |
| | 4629-QCTB-W | | PM | |

| CONTAINER PRESERVATIVE | TPHg/BTEX | TPhd w/SGC | Dissolved Iron |
|------------------------|-----------|------------|----------------|
| 9 | 3 | 1 | 1 |
| 7 | 3 | 1 | 1 |
| 2 | 3 | 1 | 1 |
| | 3 | 1 | 1 |
| | 3 | 1 | 1 |
| | 3 | 1 | 1 |
| | 3 | 1 | 1 |
| | 3 | 1 | 1 |
| | 1 | | |

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (SIGN) | DATE/TIME |
|--------------------------------|-----------|--------------------|-----------|
| <u>Steve Davis</u> | 1-11-05 | <u>[Signature]</u> | 1/11/05 |
| | 4:40 pm | | 16:40 |

TAT: 24 Hr 48 Hr 5 Day 5-7 Day
 STD (2-3 Wk) Other: _____
 PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms LJ
 Preliminary: FAX Verbal By: _____
 Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
 6—500 ml BG; 7—1 L BG; 8—1 L. cg; 9—40 ml VOA;
 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
 d—Na₂S₂O₅; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
 GEOTRACKER

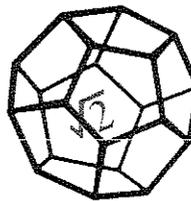
Cold in tact

SAMPLE DISPOSAL
 NCL Disposal of Non-Contaminated
 Return Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
 SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

CETV

1487007

19 1 0 2005

JG

March 09, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

DRG
CJW
[Handwritten signatures]

Order No.: 0502383
Invoice No.: 48604
PO No.: TASK 3020
ELAP No. 1247-Expires July 2006

Attn: Chris Watt

RE: 4629.03, FORMER SHELL BULK PLANT-PFP

SAMPLE IDENTIFICATION

| Fraction | Client Sample Description |
|----------|---------------------------|
| 01A | 4629-MW27-W |
| 01D | 4629-MW27-W |
| 02A | 4629-MW28-W |
| 02D | 4629-MW28-W |
| 03A | 4629-MW30-W |
| 03D | 4629-MW30-W |
| 04A | 4629-MW34-W |
| 04D | 4629-MW34-W |
| 05A | 4629-MW38-W |
| 05D | 4629-MW38-W |
| 06A | 4629-MW43-W |
| 06D | 4629-MW43-W |
| 07A | 4629-MW44-W |
| 07D | 4629-MW44-W |
| 08A | 4629-QCTB-W |

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: LACO Associates
Project: 4629.03, FORMER SHELL BULK PLANT-PF
Lab Order: 0502383

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analyte were not subjected to the cleanup procedure.

TPH as Diesel with Silica Gel Cleanup:

Samples 4629-MW27-W, 4629-MW30-W and 4629-MW34-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights.

Samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W and 4629-MW44-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

TPH as Gasoline:

Sample 4629-MW43-W does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

The gasoline value for sample 4629-MW38-W includes the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline values for samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W and 4629-MW44-W include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:

Some reporting limits were raised for samples 4629-MW27-W, 4629-MW28-W, 4629-MW43-W and 4629-MW44-W due to matrix interference.

Samples 4629-MW27-W and 4629-MW34-W were diluted and the reporting limits were raised additionally due to matrix interference.

The surrogate for sample 4629-MW43-W could not be quantified due to a large amount of early eluting material.

Suggest the confirmation of the positive MTBE result for samples 4629-MW38-W by GC/MS.

Sample 4629-MW30-W was reported as ND with a dilution due to matrix interference.

The surrogate recovery was below the lower acceptance limit for sample 4629-MW28-W. The response of the reporting limit standard was such that the analytes would have been detected even with the low recovery; therefore, the data were accepted.

Date: 08-Mar-05
WorkOrder: 0502383

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-01A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 20 | µg/L | 1.0 | | 2/26/05 |
| Benzene | 60 | 5.0 | µg/L | 10 | | 2/26/05 |
| Toluene | ND | 10 | µg/L | 10 | | 2/26/05 |
| Ethylbenzene | 7.4 | 5.0 | µg/L | 10 | | 2/26/05 |
| m,p-Xylene | ND | 5.0 | µg/L | 1.0 | | 2/26/05 |
| o-Xylene | ND | 1.5 | µg/L | 1.0 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 93.6 | 85-115 | % Rec | 10 | | 2/26/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 990 | 50 | µg/L | 1.0 | | 2/26/05 |

Client Sample ID: 4629-MW27-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-01D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 91 | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 58.7 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Client Sample ID: 4629-MW28-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-02A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 15 | µg/L | 1.0 | | 2/26/05 |
| Benzene | 94 | 25 | µg/L | 50 | | 2/26/05 |
| Toluene | 3.3 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Ethylbenzene | 6.2 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| m,p-Xylene | 1.7 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| o-Xylene | 0.73 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 82.7 | 85-115 | % Rec | 50 | | 2/26/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 640 | 50 | µg/L | 1.0 | | 2/26/05 |

Date: 08-Mar-05
WorkOrder: 0502383

ANALYTICAL REPORT

Client Sample ID: 4629-MW28-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-02D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 75 | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 88.4 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Client Sample ID: 4629-MW30-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-03A Matrix: Groundwater

Test Name: BTEX Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 300 | µg/L | 100 | | 2/26/05 |
| Benzene | 6,100 | 500 | µg/L | 1,000 | | 2/26/05 |
| Toluene | 200 | 50 | µg/L | 100 | | 2/26/05 |
| Ethylbenzene | 890 | 500 | µg/L | 1,000 | | 2/26/05 |
| m,p-Xylene | 560 | 50 | µg/L | 100 | | 2/26/05 |
| o-Xylene | 110 | 50 | µg/L | 100 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 88.7 | 85-115 | % Rec | 100 | | 2/26/05 |

Test Name: TPH as Gasoline Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 22,000 | 5,000 | µg/L | 100 | | 2/26/05 |

Client Sample ID: 4629-MW30-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-03D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 770 | 50 | µg/L | 1.0 | 3/1/05 | 3/8/05 |
| Surrogate: N-Tricosane | 80.9 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/8/05 |

Date: 08-Mar-05
WorkOrder: 0502383

ANALYTICAL REPORT

Client Sample ID: 4629-MW34-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-04A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 100 | µg/L | 10 | | 2/26/05 |
| Benzene | 120 | 50 | µg/L | 100 | | 2/26/05 |
| Toluene | 39 | 5.0 | µg/L | 10 | | 2/26/05 |
| Ethylbenzene | 120 | 50 | µg/L | 100 | | 2/26/05 |
| m,p-Xylene | 130 | 5.0 | µg/L | 10 | | 2/26/05 |
| o-Xylene | 37 | 5.0 | µg/L | 10 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 97.2 | 85-115 | % Rec | 100 | | 2/26/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 3,400 | 500 | µg/L | 10 | | 2/26/05 |

Client Sample ID: 4629-MW34-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-04D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 310 | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 89.4 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Client Sample ID: 4629-MW38-W

Received: 2/17/05

Collected: 2/15/05 0:00

Lab ID: 0502383-05A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 12 | 3.0 | µg/L | 1.0 | | 2/26/05 |
| Benzene | 47 | 10 | µg/L | 20 | | 2/26/05 |
| Toluene | 2.1 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Ethylbenzene | 2.0 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| m,p-Xylene | 1.2 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| o-Xylene | 0.82 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 87.8 | 85-115 | % Rec | 20 | | 2/26/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 250 | 50 | µg/L | 1.0 | | 2/26/05 |

Date: 08-Mar-05
WorkOrder: 0502383

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-05D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 73.6 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Client Sample ID: 4629-MW43-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-06A Matrix: Groundwater

Test Name: BTEX Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 40 | µg/L | 1.0 | | 2/26/05 |
| Benzene | ND | 4.0 | µg/L | 1.0 | | 2/26/05 |
| Toluene | ND | 1.5 | µg/L | 1.0 | | 2/26/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 2/26/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 2/26/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | NQ | 85-115 | % Rec | 1.0 | | 2/26/05 |

Test Name: TPH as Gasoline Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 320 | 50 | µg/L | 1.0 | | 2/26/05 |

Client Sample ID: 4629-MW43-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-06D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 75.9 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Date: 08-Mar-05
WorkOrder: 0502383

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-07A Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 50 | µg/L | 1.0 | | 2/26/05 |
| Benzene | 1,400 | 250 | µg/L | 500 | | 2/26/05 |
| Toluene | 4.8 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Ethylbenzene | 2.3 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| m,p-Xylene | 2.7 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| o-Xylene | 3.3 | 0.50 | µg/L | 1.0 | | 2/26/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 88.9 | 85-115 | % Rec | 500 | | 2/26/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 2,900 | 500 | µg/L | 10 | | 2/26/05 |

Client Sample ID: 4629-MW44-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-07D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 55 | 50 | µg/L | 1.0 | 3/1/05 | 3/7/05 |
| Surrogate: N-Tricosane | 47.7 | 34-145 | % Rec | 1.0 | 3/1/05 | 3/7/05 |

Client Sample ID: 4629-QCTB-W Received: 2/17/05 Collected: 2/15/05 0:00
Lab ID: 0502383-08A Matrix: Trip Blank

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 2/25/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 2/25/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 2/25/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 2/25/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 2/25/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 2/25/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 103 | 85-115 | % Rec | 1.0 | | 2/25/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 2/25/05 |

CLIENT: LACO Associates
Work Order: 0502383
Project: 4629.03, FORMER SHELL BULK PLANT-PF
QC SUMMARY REPORT
 Method Blank

| Sample ID | MB-2/25/05 | Batch ID: | R33581 | Test Code: | BTXEW | Units: | µg/L | Analysis Date | 2/26/05 2:54:48 AM | Prep Date | |
|--------------------------|------------|-----------|--|-------------|--|----------|-----------|---------------|--------------------|-----------|------|
| Client ID: | | Run ID: | ORGC8_050225B <th>SeqNo:</th> <td>486065 <td></td> <td></td> <td></td> <td></td> <td></td> </td> | SeqNo: | 486065 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | ND | 3.0 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Cis-1,2-Dichloroethylene | 0.904 | 0.10 | 1.00 | 0 | 90.4% | 85 | 115 | 0 | | | |

| Sample ID | MB-13069 | Batch ID: | 13069 | Test Code: | SGTPHDW | Units: | µg/L | Analysis Date | 3/7/05 7:50:27 PM | Prep Date | |
|-----------------------|----------|-----------|---|-------------|---------|----------|-----------|---------------|-------------------|-----------|------|
| Client ID: | | Run ID: | ORGC5_050307A <th>SeqNo:</th> <td>488391</td> <td></td> <td></td> <td></td> <td></td> <td></td> | SeqNo: | 488391 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Diesel (C12-C22) | 48.96 | 50 | | | | | | | | | J |
| N-Tricosane | 53.4 | 0.10 | 50.0 | 0 | 107% | 34 | 145 | 0 | | | |

| Sample ID | MB-2/25/05 | Batch ID: | R33577 | Test Code: | TPHCGW | Units: | µg/L | Analysis Date | 2/26/05 2:54:48 AM | Prep Date | |
|-------------------|------------|-----------|---------------|-------------|--------|----------|-----------|---------------|--------------------|-----------|------|
| Client ID: | | Run ID: | ORGC8_050225A | SeqNo: | 486016 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Gas (C6-C14) | ND | 50 | | | | | | | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits

CLIENT: LACO Associates
Work Order: 0502383
Project: 4629.03, FORMER SHELL BULK PLANT-PF
QC SUMMARY REPORT
 Laboratory Control Spike

| Sample ID | LCS-05137 | Batch ID: | R33581 | Test Code: | BTXEW | Units: | µg/L | Analysis Date | 2/25/05 10:55:03 PM | Prep Date | |
|--------------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|---------------|---------------------|-----------|------|
| Client ID: | | Run ID: | ORGC8_050225B | SeqNo: | 486062 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 37.60 | 3.0 | 40.0 | 0 | 94.0% | 85 | 115 | 0 | | | |
| Benzene | 4.994 | 0.50 | 5.00 | 0 | 99.9% | 85 | 115 | 0 | | | |
| Toluene | 5.087 | 0.50 | 5.00 | 0 | 102% | 85 | 115 | 0 | | | |
| Ethylbenzene | 5.036 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 0 | | | |
| m,p-Xylene | 10.06 | 0.50 | 10.0 | 0 | 101% | 85 | 115 | 0 | | | |
| o-Xylene | 5.048 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.01 | 0.10 | 1.00 | 0 | 101% | 85 | 115 | 0 | | | |

| Sample ID | LCSD-05137 | Batch ID: | R33581 | Test Code: | BTXEW | Units: | µg/L | Analysis Date | 2/25/05 11:29:21 PM | Prep Date | |
|--------------------------|------------|-----------|---------------|-------------|--------|----------|-----------|---------------|---------------------|-----------|------|
| Client ID: | | Run ID: | ORGC8_050225B | SeqNo: | 486063 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 37.23 | 3.0 | 40.0 | 0 | 93.1% | 85 | 115 | 37.6 | 0.972% | 15 | |
| Benzene | 4.976 | 0.50 | 5.00 | 0 | 99.5% | 85 | 115 | 4.99 | 0.368% | 15 | |
| Toluene | 5.030 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 5.09 | 1.13% | 15 | |
| Ethylbenzene | 5.011 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 5.04 | 0.498% | 15 | |
| m,p-Xylene | 10.02 | 0.50 | 10.0 | 0 | 100% | 85 | 115 | 10.1 | 0.445% | 15 | |
| o-Xylene | 5.025 | 0.50 | 5.00 | 0 | 100% | 85 | 115 | 5.05 | 0.467% | 15 | |
| Cis-1,2-Dichloroethylene | 1.12 | 0.10 | 1.00 | 0 | 112% | 85 | 115 | 1.01 | 10.2% | 15 | |

| Sample ID | LCS-13069 | Batch ID: | 13069 | Test Code: | SGTPHDW | Units: | µg/L | Analysis Date | 3/7/05 5:55:07 PM | Prep Date | |
|-----------------------|-----------|-----------|---------------|-------------|---------|----------|-----------|---------------|-------------------|-----------|------|
| Client ID: | | Run ID: | ORGC5_050307A | SeqNo: | 488389 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Diesel (C12-C22) | 324.3 | 50 | 500 | 0 | 64.9% | 33 | 92 | 0 | | | |
| N-Tricosane | 52.7 | 0.10 | 50.0 | 0 | 105% | 34 | 145 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates

Work Order: 0502383

Project: 4629.03, FORMER SHELL BULK PLANT-PF

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-13069** Batch ID: **13069** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date **3/7/05 6:23:51 PM** Prep Date **3/1/05**
Client ID: Run ID: **ORGC5_050307A** SeqNo: **488390**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Diesel (C12-C22) | 357.0 | 50 | 500 | 0 | 71.4% | 33 | 92 | 324 | 9.59% | 13 | |
| N-Tricosane | 51.1 | 0.10 | 50.0 | 0 | 102% | 34 | 145 | 52.7 | 3.03% | 11 | |

Sample ID **LCS-05138** Batch ID: **R33577** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **2/26/05 12:37:54 AM** Prep Date
Client ID: Run ID: **ORGC8_050225A** SeqNo: **486013**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | 538.4 | 50 | 500 | 0 | 108% | 81 | 126 | 0 | | | |

Sample ID **LCSD-05138** Batch ID: **R33577** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **2/26/05 1:12:10 AM** Prep Date
Client ID: Run ID: **ORGC8_050225A** SeqNo: **486014**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Gas (C6-C14) | 545.8 | 50 | 500 | 0 | 109% | 81 | 126 | 538 | 1.36% | 15 | |

Qualifiers:

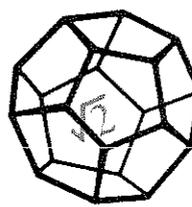
ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits



**NORTH COAST
LABORATORIES LTD.**

RECEIVED
LACO ASSOCIATES
APR 18 2005
BY: JG

April 14, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Order No.: 0503662
Invoice No.: 49389
PO No.: TASK 3020
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, FORMER SHELL BULK PLANT-PFP

DRG D
CJW

SAMPLE IDENTIFICATION

| Fraction | Client Sample Description |
|----------|---------------------------|
| 01A | 4629-MW27-W |
| 01D | 4629-MW27-W |
| 02A | 4629-MW28-W |
| 02D | 4629-MW28-W |
| 03A | 4629-MW30-W |
| 03D | 4629-MW30-W |
| 04A | 4629-MW34-W |
| 04D | 4629-MW34-W |
| 05A | 4629-MW38-W |
| 05D | 4629-MW38-W |
| 06A | 4629-MW43-W |
| 06D | 4629-MW43-W |
| 07A | 4629-MW44-W |
| 07D | 4629-MW44-W |
| 08A | 4629-QCTB-W |

ND = Not Detected at the Reporting Limit
Limit = Reporting Limit
All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: LACO Associates
Project: 4629.03, FORMER SHELL BULK PLANT-PF
Lab Order: 0503662

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analyte were not subjected to the cleanup procedure.

TPH as Diesel with Silica Gel Cleanup:

Samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W and 4629-MW34-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. These samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

The low surrogate recoveries for samples 4629-MW27-W and 4629-MW34-W may be due to matrix interference.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for the surrogate. The LCS/LCSD recoveries for diesel were within the acceptance limits; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the upper acceptance limit for diesel. This indicates that the results could be variable.

TPH as Gasoline:

Samples 4629-MW30-W and 4629-MW34-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample 4629-MW38-W includes the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline values for samples 4629-MW27-W, 4629-MW28-W, 4629-MW43-W and 4629-MW44-W include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:

Some reporting limits were raised for samples 4629-MW27-W, 4629-MW28-W, 4629-MW43-W and 4629-MW44-W due to matrix interference.

Sample 4629-MW34-W was diluted and the reporting limits raised additionally due to matrix interference.

Suggest the confirmation of the positive MTBE result for samples 4629-MW38-W by GC/MS.

CLIENT: LACO Associates
Project: 4629.03, FORMER SHELL BULK PLANT-PF
Lab Order: 0503662

CASE NARRATIVE

Sample 4629-MW30-W was reported as ND with a dilution due to matrix interference.

The surrogate recovery for sample 4629-MW44-W was outside of the acceptance limits. The surrogate recoveries for the quality control samples were within the acceptance limits. This indicates that the low surrogate recovery may be due to matrix effects from the sample.

Date: 14-Apr-05
WorkOrder: 0503662

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-01A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 30 | µg/L | 1.0 | | 4/9/05 |
| Benzene | 300 | 50 | µg/L | 100 | | 4/10/05 |
| Toluene | 7.9 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Ethylbenzene | 6.8 | 5.0 | µg/L | 10 | | 4/9/05 |
| m,p-Xylene | 2.9 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| o-Xylene | 1.6 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 94.8 | 85-115 | % Rec | 100 | | 4/10/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 1,300 | 50 | µg/L | 1.0 | | 4/9/05 |

Client Sample ID: 4629-MW27-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-01D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 80 | 50 | µg/L | 1.0 | 4/10/05 | 4/14/05 |
| Surrogate: N-Tricosane | 66.4 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/14/05 |

Client Sample ID: 4629-MW28-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-02A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 20 | µg/L | 1.0 | | 4/9/05 |
| Benzene | 100 | 10 | µg/L | 20 | | 4/9/05 |
| Toluene | 4.2 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Ethylbenzene | 8.5 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| m,p-Xylene | 1.2 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| o-Xylene | 0.57 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 98.3 | 85-115 | % Rec | 20 | | 4/9/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 780 | 50 | µg/L | 1.0 | | 4/9/05 |

Date: 14-Apr-05
WorkOrder: 0503662

ANALYTICAL REPORT

Client Sample ID: 4629-MW28-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-02D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 81 | 50 | µg/L | 1.0 | 4/10/05 | 4/13/05 |
| Surrogate: N-Tricosane | 95.5 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/13/05 |

Client Sample ID: 4629-MW30-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-03A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 300 | µg/L | 100 | | 4/10/05 |
| Benzene | 5,600 | 500 | µg/L | 1,000 | | 4/10/05 |
| Toluene | 180 | 50 | µg/L | 100 | | 4/10/05 |
| Ethylbenzene | 800 | 50 | µg/L | 100 | | 4/10/05 |
| m,p-Xylene | 490 | 50 | µg/L | 100 | | 4/10/05 |
| o-Xylene | 100 | 50 | µg/L | 100 | | 4/10/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 88.9 | 85-115 | % Rec | 100 | | 4/10/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 18,000 | 5,000 | µg/L | 100 | | 4/10/05 |

Client Sample ID: 4629-MW30-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-03D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 580 | 50 | µg/L | 1.0 | 4/10/05 | 4/14/05 |
| Surrogate: N-Tricosane | 113 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/14/05 |

Date: 14-Apr-05
WorkOrder: 0503662

ANALYTICAL REPORT

Client Sample ID: 4629-MW34-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-04A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 180 | µg/L | 10 | | 4/9/05 |
| Benzene | 95 | 5.0 | µg/L | 10 | | 4/9/05 |
| Toluene | 58 | 5.0 | µg/L | 10 | | 4/9/05 |
| Ethylbenzene | 120 | 50 | µg/L | 100 | | 4/9/05 |
| m,p-Xylene | 200 | 5.0 | µg/L | 10 | | 4/9/05 |
| o-Xylene | 55 | 5.0 | µg/L | 10 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 91.7 | 85-115 | % Rec | 100 | | 4/9/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 5,500 | 500 | µg/L | 10 | | 4/9/05 |

Client Sample ID: 4629-MW34-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-04D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 190 | 50 | µg/L | 1.0 | 4/10/05 | 4/14/05 |
| Surrogate: N-Tricosane | 56.1 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/14/05 |

Client Sample ID: 4629-MW38-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-05A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 14 | 3.0 | µg/L | 1.0 | | 4/9/05 |
| Benzene | 28 | 5.0 | µg/L | 10 | | 4/9/05 |
| Toluene | 1.5 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Ethylbenzene | 1.3 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| m,p-Xylene | 0.74 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| o-Xylene | 0.50 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 93.4 | 85-115 | % Rec | 10 | | 4/9/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 200 | 50 | µg/L | 1.0 | | 4/9/05 |

Date: 14-Apr-05
WorkOrder: 0503662

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W Received: 3/30/05 Collected: 3/30/05 0:00
Lab ID: 0503662-05D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 4/10/05 | 4/13/05 |
| Surrogate: N-Tricosane | 83.8 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/13/05 |

Client Sample ID: 4629-MW43-W Received: 3/30/05 Collected: 3/30/05 0:00
Lab ID: 0503662-06A Matrix: Groundwater

Test Name: BTEX Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 80 | µg/L | 1.0 | | 4/9/05 |
| Benzene | 120 | 25 | µg/L | 50 | | 4/10/05 |
| Toluene | ND | 2.0 | µg/L | 1.0 | | 4/9/05 |
| Ethylbenzene | ND | 2.0 | µg/L | 1.0 | | 4/9/05 |
| m,p-Xylene | ND | 2.0 | µg/L | 1.0 | | 4/9/05 |
| o-Xylene | 1.6 | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 91.8 | 85-115 | % Rec | 50 | | 4/10/05 |

Test Name: TPH as Gasoline Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 650 | 50 | µg/L | 1.0 | | 4/9/05 |

Client Sample ID: 4629-MW43-W Received: 3/30/05 Collected: 3/30/05 0:00
Lab ID: 0503662-06D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 4/10/05 | 4/13/05 |
| Surrogate: N-Tricosane | 101 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/13/05 |

Date: 14-Apr-05
WorkOrder: 0503662

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-07A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 70 | µg/L | 1.0 | | 4/10/05 |
| Benzene | 1,800 | 500 | µg/L | 1,000 | | 4/10/05 |
| Toluene | 6.7 | 0.50 | µg/L | 1.0 | | 4/10/05 |
| Ethylbenzene | 4.3 | 0.50 | µg/L | 1.0 | | 4/10/05 |
| m,p-Xylene | 3.6 | 0.50 | µg/L | 1.0 | | 4/10/05 |
| o-Xylene | 3.5 | 0.50 | µg/L | 1.0 | | 4/10/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 78.7 | 85-115 | % Rec | 1,000 | | 4/10/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 3,600 | 500 | µg/L | 10 | | 4/10/05 |

Client Sample ID: 4629-MW44-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-07D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 4/10/05 | 4/13/05 |
| Surrogate: N-Tricosane | 88.4 | 70-130 | % Rec | 1.0 | 4/10/05 | 4/13/05 |

Client Sample ID: 4629-QCTB-W

Received: 3/30/05

Collected: 3/30/05 0:00

Lab ID: 0503662-08A

Matrix: Trip Blank

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 4/9/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 4/9/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 4/9/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 4/9/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 100 | 85-115 | % Rec | 1.0 | | 4/9/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 4/9/05 |

CLIENT: LACO Associates

Work Order: 0503662

Project: 4629.03, FORMER SHELL BULK PLANT-PFP

QC SUMMARY REPORT

Method Blank

| Sample ID: | MB-4/9/05 | Batch ID: | R34303 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 4/9/05 5:38:24 PM | Prep Date: | |
|--------------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050409B | SeqNo: | 497328 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | ND | 3.0 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Cis-1,2-Dichloroethylene | 0.950 | 0.10 | 1.00 | 0 | 95.0% | 85 | 115 | 0 | | | |

| Sample ID: | MB-13300 | Batch ID: | 13300 | Test Code: | SGTPHDW | Units: | µg/L | Analysis Date: | 4/13/05 8:00:47 PM | Prep Date: | 4/10/05 |
|-----------------------|----------|-----------|---------------|-------------|---------|----------|-----------|----------------|--------------------|------------|---------|
| Client ID: | | Run ID: | ORGC5_050413A | SeqNo: | 498135 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Diesel (C12-C22) | ND | 50 | | | | | | | | | |
| N-Tricosane | 45.6 | 0.10 | 50.0 | 0 | 91.3% | 70 | 130 | 0 | | | |

| Sample ID: | MB-4/9/05 | Batch ID: | R34302 | Test Code: | TPHCGW | Units: | µg/L | Analysis Date: | 4/9/05 5:38:24 PM | Prep Date: | |
|-------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050409A | SeqNo: | 497315 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Gas (C6-C14) | ND | 50 | | | | | | | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates

Work Order: 0503662

Project: 4629.03, FORMER SHELL BULK PLANT-PFP

QC SUMMARY REPORT

Laboratory Control Spike

| Sample ID: | LCS-05245 | Batch ID: | R34303 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 4/9/05 2:43:52 PM | Prep Date: | |
|--------------------------|-----------|-----------|--|-------------|--|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050409B <th>SeqNo:</th> <td>497326 <td></td> <td></td> <td></td> <td></td> <td></td> </td> | SeqNo: | 497326 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 45.58 | 3.0 | 40.0 | 0 | 114% | 85 | 115 | 0 | | | |
| Benzene | 5.374 | 0.50 | 5.00 | 0 | 107% | 85 | 115 | 0 | | | |
| Toluene | 5.206 | 0.50 | 5.00 | 0 | 104% | 85 | 115 | 0 | | | |
| Ethylbenzene | 5.103 | 0.50 | 5.00 | 0 | 102% | 85 | 115 | 0 | | | |
| m,p-Xylene | 10.31 | 0.50 | 10.0 | 0 | 103% | 85 | 115 | 0 | | | |
| o-Xylene | 5.134 | 0.50 | 5.00 | 0 | 103% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.02 | 0.10 | 1.00 | 0 | 102% | 85 | 115 | 0 | | | |

| Sample ID: | LCSD-05245 | Batch ID: | R34303 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 4/9/05 3:18:51 PM | Prep Date: | |
|--------------------------|------------|-----------|---|-------------|--------|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050409B <th>SeqNo:</th> <td>497327</td> <td></td> <td></td> <td></td> <td></td> <td></td> | SeqNo: | 497327 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | 44.86 | 3.0 | 40.0 | 0 | 112% | 85 | 115 | 45.6 | 1.58% | 15 | |
| Benzene | 5.273 | 0.50 | 5.00 | 0 | 105% | 85 | 115 | 5.37 | 1.89% | 15 | |
| Toluene | 5.091 | 0.50 | 5.00 | 0 | 102% | 85 | 115 | 5.21 | 2.24% | 15 | |
| Ethylbenzene | 5.032 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 5.10 | 1.39% | 15 | |
| m,p-Xylene | 10.16 | 0.50 | 10.0 | 0 | 102% | 85 | 115 | 10.3 | 1.44% | 15 | |
| o-Xylene | 5.067 | 0.50 | 5.00 | 0 | 101% | 85 | 115 | 5.13 | 1.31% | 15 | |
| Cis-1,2-Dichloroethylene | 1.11 | 0.10 | 1.00 | 0 | 111% | 85 | 115 | 1.02 | 8.82% | 15 | |

| Sample ID: | LCS-13300 | Batch ID: | 13300 | Test Code: | SGTPHDW | Units: | µg/L | Analysis Date: | 4/13/05 6:03:36 PM | Prep Date: | 4/10/05 |
|-----------------------|-----------|-----------|---------------|-------------|---------|----------|-----------|----------------|--------------------|------------|---------|
| Client ID: | | Run ID: | ORGC5_050413A | SeqNo: | 498133 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Diesel (C12-C22) | 401.9 | 50 | 500 | 0 | 80.4% | 40 | 107 | 0 | | | |
| N-Tricosane | 67.0 | 0.10 | 50.0 | 0 | 134% | 70 | 130 | 0 | | | S |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits

CLIENT: LACO Associates
 Work Order: 0503662
 Project: 4629.03, FORMER SHELL BULK PLANT-PFP

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: LCSD-13300 Batch ID: 13300 Test Code: SGTPHDW Units: µg/L Analysis Date: 4/13/05 6:32:45 PM Prep Date: 4/10/05
 Client ID: Run ID: ORGC5_050413A SeqNo: 498134

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Diesel (C12-C22) | 333.3 | 50 | 500 | 0 | 66.7% | 40 | 107 | 402 | 18.7% | 15 | R |
| N-Tricosane | 65.2 | 0.10 | 50.0 | 0 | 130% | 70 | 130 | 67.0 | 2.60% | 15 | S |

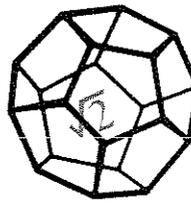
Sample ID: LCS-05246 Batch ID: R34302 Test Code: TPHCGW Units: µg/L Analysis Date: 4/9/05 3:53:45 PM Prep Date:
 Client ID: Run ID: ORGC8_050409A SeqNo: 497313

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | 556.3 | 50 | 500 | 0 | 111% | 81 | 126 | 0 | | | |

Sample ID: LCSD-05246 Batch ID: R34302 Test Code: TPHCGW Units: µg/L Analysis Date: 4/9/05 4:28:41 PM Prep Date:
 Client ID: Run ID: ORGC8_050409A SeqNo: 497314

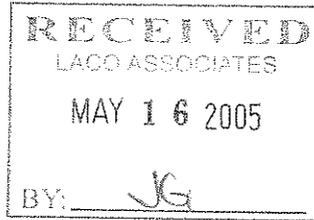
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|--------|----------|------|
| TPHC Gas (C6-C14) | 551.0 | 50 | 500 | 0 | 110% | 81 | 126 | 556 | 0.964% | 15 | |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits



May 11, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502



Order No.: 0504609
Invoice No.: 50044
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

DRG
CSW/gp

SAMPLE IDENTIFICATION

| Fraction | Client Sample Description |
|----------|---------------------------|
| 01A | 4629-MW1A-W |
| 01D | 4629-MW1A-W |
| 02A | 4629-MW16-W |
| 02D | 4629-MW16-W |
| 03A | 4629-MW19-W |
| 03D | 4629-MW19-W |
| 04A | 4629-MW20-W |
| 04D | 4629-MW20-W |
| 05A | 4629-MW23-W |
| 05D | 4629-MW23-W |
| 06A | 4629-MW24-W |
| 06D | 4629-MW24-W |
| 07A | 4629-MW25-W |
| 07D | 4629-MW25-W |
| 08A | 4629-MW27-W |
| 08D | 4629-MW27-W |
| 09A | 4629-MW28-W |
| 09D | 4629-MW28-W |
| 10A | 4629-MW29-W |
| 10D | 4629-MW29-W |
| 11A | 4629-MW30-W |
| 11D | 4629-MW30-W |
| 12A | 4629-MW33-W |
| 12D | 4629-MW33-W |
| 13A | 4629-MW34-W |
| 13D | 4629-MW34-W |
| 14A | 4629-MW35-W |
| 14D | 4629-MW35-W |

ND = Not Detected at the Reporting Limit
Limit = Reporting Limit
All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

May 11, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Order No.: 0504609
Invoice No.: 50044
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4629.03, HPI-Bulk Plant-UST

SAMPLE IDENTIFICATION

| | |
|-----|-------------|
| 15A | 4629-MW36-W |
| 15D | 4629-MW36-W |
| 16A | 4629-MW37-W |
| 16D | 4629-MW37-W |
| 17A | 4629-MW38-W |
| 17D | 4629-MW38-W |
| 18A | 4629-MW39-W |
| 18D | 4629-MW39-W |
| 19A | 4629-MW40-W |
| 19D | 4629-MW40-W |
| 20A | 4629-MW41-W |
| 20D | 4629-MW41-W |
| 21A | 4629-MW42-W |
| 21D | 4629-MW42-W |
| 22A | 4629-MW43-W |
| 22D | 4629-MW43-W |
| 23A | 4629-MW44-W |
| 23D | 4629-MW44-W |

CLIENT: LACO Associates
Project: 4629.03, HPI-Bulk Plant-UST
Lab Order: 0504609

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analyte were not subjected to the cleanup procedure.

TPH as Diesel with Silica Gel Cleanup:

Samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W and 4629-MW34-W contain some material lighter than diesel, however, some of this material extends into the diesel range of molecular weights.

Samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W, 4629-MW39-W, 4629-MW43-W and 4629-MW44-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

Sample 4629-MW29-W contains material similar to degraded or weathered diesel oil.

The surrogate recoveries for samples 4629-MW27-W, 4629-MW28-W, 4629-MW30-W, 4629-MW34-W, and 4629-MW39-W were outside of the acceptance limits. The surrogate recoveries for the quality control samples were within acceptance limits. This indicates that the low surrogate recoveries may be due to matrix effects from the samples.

There was an interferent present in the method blank, analyzed on 5/6/05, that was above the reporting limit for diesel. The samples analyzed on 5/6/05 were not affected by the interferent; therefore, the data were accepted.

The relative percent difference's (RPD's) for the laboratory control samples analyzed on 5/10/05 were above the upper acceptance limits for diesel and the surrogate. This indicates that the results could be variable.

TPH as Diesel:

The surrogate recoveries were below the lower acceptance limit for sample 4629-MW16-W and the method blank. The response of the reporting limit standard was such that the analyte would have been detected even with the low recoveries; therefore, the data were accepted.

BTEX:

Suggest the confirmation of the positive MTBE results for samples 4629-MW35-W, 4629-MW36-W, 4629-MW37-W, 4629-MW38-W, 4629-MW39-W, 4629-MW40-W, 4629-MW41-W and 4629-MW42-W by GC/MS.

Some reporting limits were raised for samples 4629-MW1A-W, 4629-MW25-W, 4629-MW27-W, 4629-MW28-W, 4629-MW42-W, 4629-MW43-W and 4629-MW44-W due to matrix interference.

CLIENT: LACO Associates
Project: 4629.03, HPI-Bulk Plant-UST
Lab Order: 0504609

CASE NARRATIVE

Sample 4629-MW34-W was diluted and the reporting limits raised additionally due to matrix interference.

Sample 4629-MW30-W was reported as ND with a dilution due to matrix interference.

The surrogate recoveries were below the lower acceptance limit for samples 4629-MW23-W and 4629-MW24-W. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The RPD for the laboratory control samples analyzed on 5/5/05 was above the upper acceptance limit for the surrogate. All of the analyte RPD's were within the acceptance limits; therefore, the data were accepted.

TPH as Gasoline:

Sample 4629-MW25-W does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

Samples 4629-MW30-W and 4629-MW34-W appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline values for samples 4629-MW1A-W, 4629-MW27-W, 4629-MW28-W, 4629-MW43-W and 4629-MW44-W include the reported gasoline components in addition to other peaks in the gasoline range.

The gasoline values for samples 4629-MW38-W and 4629-MW42-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW1A-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-01A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 3.2 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Toluene | ND | 1.5 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 97.0 | 85-115 | % Rec | 1.0 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 170 | 50 | µg/L | 1.0 | | 5/6/05 |

Client Sample ID: 4629-MW1A-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-01D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 73.6 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW16-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-02A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 1.6 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | 0.66 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 91.2 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Date: 11-May-05

WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW16-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-02D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 59.9 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW19-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-03A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 97.9 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW19-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-03D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 82.5 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW20-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-04A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 91.8 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW20-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-04D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 76.0 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW23-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-05A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 84.5 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW23-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-05D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 79.5 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW24-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-06A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 82.7 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW24-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-06D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 82.0 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW25-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-07A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 1.5 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 5.0 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 92.6 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 230 | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW25-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-07D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/3/05 | 5/6/05 |
| Surrogate: N-Tricosane | 72.1 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/6/05 |

Client Sample ID: 4629-MW27-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-08A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 20 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 250 | 50 | µg/L | 100 | | 5/6/05 |
| Toluene | 5.7 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | 8.2 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| m,p-Xylene | 1.8 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | 0.69 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 90.5 | 85-115 | % Rec | 100 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 1,100 | 50 | µg/L | 1.0 | | 5/6/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW27-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-08D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 92 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 39.3 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Client Sample ID: 4629-MW28-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-09A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 10 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 58 | 25 | µg/L | 50 | | 5/6/05 |
| Toluene | 2.9 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | 6.7 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| m,p-Xylene | 0.84 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 101 | 85-115 | % Rec | 50 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 620 | 50 | µg/L | 1.0 | | 5/6/05 |

Client Sample ID: 4629-MW28-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-09D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 97 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 55.0 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW29-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-10A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 1.1 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 89.8 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW29-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-10D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 210 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 72.3 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Client Sample ID: 4629-MW30-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-11A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 300 | µg/L | 100 | | 5/6/05 |
| Benzene | 4,500 | 500 | µg/L | 1,000 | | 5/6/05 |
| Toluene | 180 | 50 | µg/L | 100 | | 5/6/05 |
| Ethylbenzene | 680 | 50 | µg/L | 100 | | 5/6/05 |
| m,p-Xylene | 440 | 50 | µg/L | 100 | | 5/6/05 |
| o-Xylene | 92 | 50 | µg/L | 100 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 96.5 | 85-115 | % Rec | 1,000 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 19,000 | 5,000 | µg/L | 100 | | 5/6/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW30-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-11D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 530 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 61.0 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Client Sample ID: 4629-MW33-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-12A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 97.3 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW33-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-12D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 81.9 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW34-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-13A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 100 | µg/L | 10 | | 5/6/05 |
| Benzene | 74 | 5.0 | µg/L | 10 | | 5/6/05 |
| Toluene | 41 | 5.0 | µg/L | 10 | | 5/6/05 |
| Ethylbenzene | 110 | 50 | µg/L | 100 | | 5/6/05 |
| m,p-Xylene | 140 | 5.0 | µg/L | 10 | | 5/6/05 |
| o-Xylene | 39 | 5.0 | µg/L | 10 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 87.9 | 85-115 | % Rec | 100 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 4,200 | 500 | µg/L | 10 | | 5/6/05 |

Client Sample ID: 4629-MW34-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-13D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 290 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 64.8 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Client Sample ID: 4629-MW35-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-14A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 10 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 101 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW35-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-14D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 82.1 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW36-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-15A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 5.8 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 107 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW36-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-15D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 80.3 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW37-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-16A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 5.2 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 0.82 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 109 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW37-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-16D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 73.9 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW38-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-17A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 11 | 3.0 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 19 | 5.0 | µg/L | 10 | | 5/6/05 |
| Toluene | 0.61 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 104 | 85-115 | % Rec | 1.0 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 100 | 50 | µg/L | 1.0 | | 5/6/05 |

Date: 11-May-05

WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW38-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-17D

Matrix: Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/2/05 | 5/2/05 |
| Surrogate: N-Tricosane | 76.1 | 70-130 | % Rec | 1.0 | 5/2/05 | 5/2/05 |

Client Sample ID: 4629-MW39-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-18A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 14 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 0.95 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 107 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW39-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-18D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 63 | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 60.8 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW40-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-19A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 11 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 0.51 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 98.5 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW40-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-19D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/3/05 | 5/10/05 |
| Surrogate: N-Tricosane | 74.9 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/10/05 |

Client Sample ID: 4629-MW41-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-20A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 5.9 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 0.95 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 101 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | ND | 50 | µg/L | 1.0 | | 5/5/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW41-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-20D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/3/05 | 5/6/05 |
| Surrogate: N-Tricosane | 72.3 | 70-130 | % Rec | 1.0 | 5/3/05 | 5/6/05 |

Client Sample ID: 4629-MW42-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-21A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | 5.6 | 3.0 | µg/L | 1.0 | | 5/5/05 |
| Benzene | 1.5 | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| m,p-Xylene | ND | 1.0 | µg/L | 1.0 | | 5/5/05 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/5/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 99.0 | 85-115 | % Rec | 1.0 | | 5/5/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 58 | 50 | µg/L | 1.0 | | 5/5/05 |

Client Sample ID: 4629-MW42-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-21D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/5/05 | 5/9/05 |
| Surrogate: N-Tricosane | 76.5 | 70-130 | % Rec | 1.0 | 5/5/05 | 5/9/05 |

Date: 11-May-05
WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW43-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-22A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 40 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 220 | 25 | µg/L | 50 | | 5/6/05 |
| Toluene | 0.70 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | 1.2 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| m,p-Xylene | 0.52 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | 1.1 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 85.5 | 85-115 | % Rec | 50 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 670 | 50 | µg/L | 1.0 | | 5/6/05 |

Client Sample ID: 4629-MW43-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-22D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 66 | 50 | µg/L | 1.0 | 5/5/05 | 5/9/05 |
| Surrogate: N-Tricosane | 87.8 | 70-130 | % Rec | 1.0 | 5/5/05 | 5/9/05 |

Client Sample ID: 4629-MW44-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-23A

Matrix: Groundwater

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| MTBE | ND | 50 | µg/L | 1.0 | | 5/6/05 |
| Benzene | 2,300 | 500 | µg/L | 1,000 | | 5/6/05 |
| Toluene | 9.8 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Ethylbenzene | 8.5 | 5.0 | µg/L | 10 | | 5/6/05 |
| m,p-Xylene | 4.7 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| o-Xylene | 3.6 | 0.50 | µg/L | 1.0 | | 5/6/05 |
| Surrogate: Cis-1,2-Dichloroethylene | 94.8 | 85-115 | % Rec | 1,000 | | 5/6/05 |

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gas (C6-C14) | 4,500 | 500 | µg/L | 10 | | 5/6/05 |

Date: 11-May-05

WorkOrder: 0504609

ANALYTICAL REPORT

Client Sample ID: 4629-MW44-W

Received: 4/27/05

Collected: 4/27/05 0:00

Lab ID: 0504609-23D

Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 82 | 50 | µg/L | 1.0 | 5/5/05 | 5/9/05 |
| Surrogate: N-Tricosane | 79.8 | 70-130 | % Rec | 1.0 | 5/5/05 | 5/9/05 |

CLIENT: LACO Associates
Work Order: 0504609
Project: 4629.03, HPI-Bulk Plant-UST
QC SUMMARY REPORT
 Method Blank

| Sample ID: | MB-5/4/05 | Batch ID: | R34741 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 5/4/05 9:36:59 PM | Prep Date: | |
|--------------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050504A | SeqNo: | 503313 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | ND | 3.0 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Cis-1,2-Dichloroethylene | 0.910 | 0.10 | 1.00 | 0 | 91.0% | 85 | 115 | 0 | | | |

| Sample ID: | MB-5/5/05 | Batch ID: | R34760 | Test Code: | BTXEW | Units: | µg/L | Analysis Date: | 5/5/05 8:40:39 PM | Prep Date: | |
|--------------------------|-----------|-----------|---------------|-------------|--------|----------|-----------|----------------|-------------------|------------|------|
| Client ID: | | Run ID: | ORGC8_050505C | SeqNo: | 503559 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| MTBE | ND | 3.0 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| Cis-1,2-Dichloroethylene | 0.917 | 0.10 | 1.00 | 0 | 91.7% | 85 | 115 | 0 | | | |

| Sample ID: | MB-13440 | Batch ID: | 13440 | Test Code: | SGTPHDW | Units: | µg/L | Analysis Date: | 5/6/05 12:12:27 PM | Prep Date: | 5/3/05 |
|-----------------------|----------|-----------|---------------|-------------|---------|----------|-----------|----------------|--------------------|------------|--------|
| Client ID: | | Run ID: | ORGC5_050506A | SeqNo: | 504014 | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Diesel (C12-C22) | 126.2 | 50 | | | | | | | | | |
| N-Tricosane | 44.7 | 0.10 | 50.0 | 0 | 89.5% | 70 | 130 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits

QC SUMMARY REPORT

Method Blank

CLIENT: LACO Associates
 Work Order: 0504609
 Project: 4629.03, HPI-Bulk Plant-UST

Sample ID: **MB-13454** Batch ID: **13454** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date **5/9/05 3:57:34 PM** Prep Date: **5/5/05**
 Client ID: Run ID: **ORGC5_050509A** SeqNo: **504023**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | 29.24 | 50 | | | | | | | | | J |
| N-Tricosane | 45.9 | 0.10 | 50.0 | 0 | 91.8% | 70 | 130 | 0 | | | |

Sample ID: **MB-13440** Batch ID: **13440** Test Code: **SGTPHDW** Units: **µg/L** Analysis Date **5/10/05 3:29:57 PM** Prep Date: **5/3/05**
 Client ID: Run ID: **ORGC5_050510A** SeqNo: **504128**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | 41.64 | 50 | | | | | | | | | J |
| N-Tricosane | 37.3 | 0.10 | 50.0 | 0 | 74.6% | 70 | 130 | 0 | | | |

Sample ID: **MB-5/4/05** Batch ID: **R34739** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **5/4/05 9:36:59 PM** Prep Date:
 Client ID: Run ID: **ORGC8_050505A** SeqNo: **503291**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | ND | 50 | | | | | | | | | |

Sample ID: **MB-5/5/05** Batch ID: **R34759** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **5/5/05 8:40:39 PM** Prep Date:
 Client ID: Run ID: **ORGC8_050505B** SeqNo: **503541**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | ND | 50 | | | | | | | | | |

Sample ID: **MB-13429** Batch ID: **13429** Test Code: **TPHDIW** Units: **µg/L** Analysis Date **5/2/05 6:35:38 PM** Prep Date: **5/2/05**
 Client ID: Run ID: **ORGC7_050502B** SeqNo: **502607**

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | ND | 50 | | | | | | | | | S |
| N-Tricosane | 32.2 | 0.10 | 50.0 | 0 | 64.3% | 70 | 130 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

QC SUMMARY REPORT
Laboratory Control Spike

CLIENT: LACO Associates
Work Order: 0504609
Project: 4629.03, HPI-Bulk Plant-UST

Sample ID: LCS-05307 **Batch ID:** R34741 **Test Code:** BTXEW **Units:** µg/L **Analysis Date:** 5/4/05 6:05:42 PM **Prep Date:**
Client ID: ORGC8_050504A **Run ID:** ORGC8_050504A **SeqNo:** 503311

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|--------------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| MTBE | 41.24 | 3.0 | 40.0 | 0 | 103% | 85 | 115 | 0 | | | |
| Benzene | 4.922 | 0.50 | 5.00 | 0 | 98.4% | 85 | 115 | 0 | | | |
| Toluene | 4.878 | 0.50 | 5.00 | 0 | 97.6% | 85 | 115 | 0 | | | |
| Ethylbenzene | 4.856 | 0.50 | 5.00 | 0 | 97.1% | 85 | 115 | 0 | | | |
| m,p-Xylene | 9.827 | 0.50 | 10.0 | 0 | 98.3% | 85 | 115 | 0 | | | |
| o-Xylene | 4.814 | 0.50 | 5.00 | 0 | 96.3% | 85 | 115 | 0 | | | |
| Cis-1,2-Dichloroethylene | 1.03 | 0.10 | 1.00 | 0 | 103% | 85 | 115 | 0 | | | |

Sample ID: LCSD-05307 **Batch ID:** R34741 **Test Code:** BTXEW **Units:** µg/L **Analysis Date:** 5/5/05 5:08:48 AM **Prep Date:**
Client ID: ORGC8_050504A **Run ID:** ORGC8_050504A **SeqNo:** 503333

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|--------------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| MTBE | 38.48 | 3.0 | 40.0 | 0 | 96.2% | 85 | 115 | 41.2 | 6.92% | 15 | |
| Benzene | 4.857 | 0.50 | 5.00 | 0 | 97.1% | 85 | 115 | 4.92 | 1.33% | 15 | |
| Toluene | 4.745 | 0.50 | 5.00 | 0 | 94.9% | 85 | 115 | 4.88 | 2.77% | 15 | |
| Ethylbenzene | 4.718 | 0.50 | 5.00 | 0 | 94.4% | 85 | 115 | 4.86 | 2.89% | 15 | |
| m,p-Xylene | 9.470 | 0.50 | 10.0 | 0 | 94.7% | 85 | 115 | 9.83 | 3.69% | 15 | |
| o-Xylene | 4.629 | 0.50 | 5.00 | 0 | 92.6% | 85 | 115 | 4.81 | 3.92% | 15 | |
| Cis-1,2-Dichloroethylene | 1.05 | 0.10 | 1.00 | 0 | 105% | 85 | 115 | 1.03 | 1.97% | 15 | |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: LACO Associates
Work Order: 0504609
Project: 4629.03, HPI-Bulk Plant-UST

QC SUMMARY REPORT
 Laboratory Control Spike Duplicate

Sample ID: LCSD-13440 **Batch ID:** 13440 **Test Code:** SGTPHDW **Units:** µg/L **Analysis Date:** 5/6/05 10:45:34 AM **Prep Date:** 5/3/05
Client ID: **Run ID:** ORGC5_050506A **SeqNo:** 504013

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Diesel (C12-C22) | 301.1 | 50 | 500 | 0 | 60.2% | 40 | 107 | 342 | 12.8% | 15 | B |
| N-Tricosane | 49.4 | 0.10 | 50.0 | 0 | 98.8% | 70 | 130 | 44.8 | 9.87% | 15 | |

Sample ID: LCS-13454 **Batch ID:** 13454 **Test Code:** SGTPHDW **Units:** µg/L **Analysis Date:** 5/9/05 2:01:46 PM **Prep Date:** 5/5/05
Client ID: **Run ID:** ORGC5_050509A **SeqNo:** 504021

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | 453.5 | 50 | 500 | 0 | 90.7% | 40 | 107 | 0 | | | |
| N-Tricosane | 53.6 | 0.10 | 50.0 | 0 | 107% | 70 | 130 | 0 | | | |

Sample ID: LCSD-13454 **Batch ID:** 13454 **Test Code:** SGTPHDW **Units:** µg/L **Analysis Date:** 5/9/05 2:31:11 PM **Prep Date:** 5/5/05
Client ID: **Run ID:** ORGC5_050509A **SeqNo:** 504022

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Diesel (C12-C22) | 418.5 | 50 | 500 | 0 | 83.7% | 40 | 107 | 454 | 8.03% | 15 | |
| N-Tricosane | 52.9 | 0.10 | 50.0 | 0 | 106% | 70 | 130 | 53.6 | 1.27% | 15 | |

Sample ID: LCS-13440 **Batch ID:** 13440 **Test Code:** SGTPHDW **Units:** µg/L **Analysis Date:** 5/10/05 1:30:28 PM **Prep Date:** 5/3/05
Client ID: **Run ID:** ORGC5_050510A **SeqNo:** 504126

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Diesel (C12-C22) | 278.9 | 50 | 500 | 0 | 55.8% | 40 | 107 | 0 | | | |
| N-Tricosane | 37.0 | 0.10 | 50.0 | 0 | 73.9% | 70 | 130 | 0 | | | |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: LACO Associates
 Work Order: 0504609
 Project: 4629.03, HPI-Bulk Plant-UST

Sample ID: LCSD-13440 Batch ID: 13440 Test Code: SGTPHDW Units: µg/L Analysis Date 5/10/05 2:00:18 PM Prep Date: 5/3/05
 Client ID: Run ID: ORGC5_050510A SeqNo: 504127

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-----------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Diesel (C12-C22) | 352.9 | 50 | 500 | 0 | 70.6% | 40 | 107 | 279 | 23.4% | 15 | R |
| N-Tricosane | 45.6 | 0.10 | 50.0 | 0 | 91.1% | 70 | 130 | 37.0 | 20.8% | 15 | R |

Sample ID: LCS-05303 Batch ID: R34739 Test Code: TPHCGW Units: µg/L Analysis Date 5/4/05 7:51:50 PM Prep Date:
 Client ID: Run ID: ORGC8_050505A SeqNo: 503289

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | 537.6 | 50 | 500 | 0 | 108% | 81 | 126 | 0 | | | |

Sample ID: LCSD-05303 Batch ID: R34739 Test Code: TPHCGW Units: µg/L Analysis Date 5/5/05 5:43:27 AM Prep Date:
 Client ID: Run ID: ORGC8_050505A SeqNo: 503296

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|-------|----------|------|
| TPHC Gas (C6-C14) | 515.5 | 50 | 500 | 0 | 103% | 81 | 126 | 538 | 4.21% | 15 | |

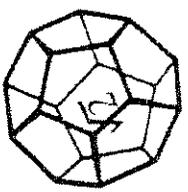
Sample ID: LCS-05312 Batch ID: R34759 Test Code: TPHCGW Units: µg/L Analysis Date 5/5/05 6:55:02 PM Prep Date:
 Client ID: Run ID: ORGC8_050505B SeqNo: 503539

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|------|----------|------|
| TPHC Gas (C6-C14) | 552.6 | 50 | 500 | 0 | 111% | 81 | 126 | 0 | | | |

Sample ID: LCSD-05312 Batch ID: R34759 Test Code: TPHCGW Units: µg/L Analysis Date 5/5/05 7:30:21 PM Prep Date:
 Client ID: Run ID: ORGC8_050505B SeqNo: 503540

| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|-------------------|--------|-------|-----------|-------------|-------|----------|-----------|-------------|---------|----------|------|
| TPHC Gas (C6-C14) | 552.7 | 50 | 500 | 0 | 111% | 81 | 126 | 553 | 0.0125% | 15 | |

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits



NORTH COAST LABORATORIES LTD.

3680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Chain of Custody

0504609

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: LACO ASSOCIATES
Address: 21 West Fourth Street
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): *SJD*

PROJECT INFORMATION

Project Number: 4629.03
Project Name: HPI - Bulk Plant-UST
Purchase Order Number: task 3023

| CONTAINER PRESERVATIVE | TPH _g /BTX | TPH _d w/SGC | DATE/TIME |
|------------------------|-----------------------|------------------------|-----------|
| 9 | 3 | 1 | |
| 7 | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |
| | 3 | 1 | |

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|--------|-----------------------|---------|------|---------|
| | 4629-MW1A-W | 4-27-05 | AM | GW |
| | ██████████ | | | |
| | 4629-MW16-W | | | |
| | 4629-MW19-W | | | |
| | 4629-MW20-W | | | |
| | 4629-MW23-W | | | |
| | 4629-MW24-W | | | |
| | 4629-MW25-W | | | |
| | 4629-MW27-W | | | |
| | 4629-MW28-W | | PM | |

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|--------------------------------|-----------------|--------------------|---------------|
| <i>SJD</i> STEVE DAVIS | 4-27-05 3:52 PM | <i>Humbert</i> | 4/29/05 16:00 |

TAT: 24 Hr 48 Hr 5 Day 5-7 Day
 STD (2-3 Wk) Other:
 PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms
 Preliminary: FAX Verbal By: _____
 Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
 6—500 ml BG; 7—1 L BG; 8—1 L cB; 9—40 ml VOA;
 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
 d—Na₂S₂O₅; e—NaOH; f—C₂H₃O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
 GEOTRACKER

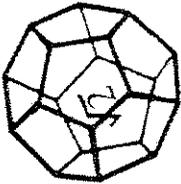
C. v. l. f. s. g.

SAMPLE DISPOSAL
 NCL Disposal of Non-Contaminated
 Return Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
 SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



NORTH COAST LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

0904609

LABORATORY NUMBER:

Attention: Accounts Payable
 Results & Invoice to: LACO ASSOCIATES
 Address: 21 West Fourth Street, Eureka CA 95501
 Phone: (707) 443-5054
 Copies of Report to: LACO; Chris Watt
 Sampler (Sign & Print): SJD

PROJECT INFORMATION
 Project Number: 4629.03
 Project Name: HPI - Bulk Plant-UST
 Purchase Order Number: task 3023

| CONTAINER PRESERVATIVE | ANALYSIS | TPH ^g /BTX | TPH ^d w/SGC | | | | | | | | | | | | | | | |
|------------------------|----------|-----------------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|-------------|-----------|---------|------|---------|
| 4629-MW29-W | | 4-27-05 | AM | GW |
| 4629-MW30-W | | | | |
| 4629-MW33-W | | | | |
| 4629-MW34-W | | | | |
| 4629-MW35-W | | | | |
| 4629-MW36-W | | | | |
| 4629-MW37-W | | | | |
| 4629-MW38-W | | | | |
| 4629-MW39-W | | | | |
| 4629-MW40-W | | | PM | |

| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
|--------------------------------|--------------------|--------------------|-----------|
| STEVE DAVIS | 4-27-05 3:52 PM | (G:OL) | 4/27/05 |

TAE: 24 Hr 48 Hr 5 Day 5-7 Day
 STD (2-3 Wk) Other: _____
 PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms
 Preliminary: FAX Verbal By: _____
 Final Report: FAX Verbal By: _____

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BC;
 6—500 ml BC; 7—1 L BC; 8—1 L. eg; 9—40 ml VOA;
 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
 d—Na₂S₂O₅; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
 GEOTRACKER
 Cooler temp 5°

SAMPLE DISPOSAL
 NCL Disposal of Non-Contaminated
 Return Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
 SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 4

gn

Project Name: BULK PLANT
Project No.: 4629.03
Task: 413
Date: 2/2/2005
PM: CSN

Tech: BWN
Move/Demove time: 25/25
Travel time: 15/15
Time on site: 13/5
Time off site: 14/20
Mileage: 40

SYSTEM READINGS

| UNIT: | | | | UNIT: | | | |
|--|-------------------------|--------------|--------------------------|--|-------------------------|--------------|--------------------------|
| Master Panel Runtime (Hrs): | | | | Master Panel Runtime (Hrs): | | | |
| O ₂ Concentrator Runtime (Hrs): | | | | O ₂ Concentrator Runtime (Hrs): | | | |
| System Clock Time: | | | | System Clock Time: | | | |
| STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) | STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) |
| 1 | MANUAL 2 MIN X 2 | | ALL POINTS | 1 | | | |
| 2 | | | | 2 | | | |
| 3 | | | | 3 | | | |
| 4 | | | | 4 | | | |
| 5 | | | | 5 | | | |
| 6 | | | | 6 | | | |
| 7 | | | | 7 | | | |
| 8 | | | | 8 | | | |
| 9 | | | | 9 | | | |
| 10 | | | | 10 | | | |
| 11 | | | | 11 | | | |
| 12 | | | | 12 | | | |

ANCILLARY INFORMATION

| | |
|--------------------------------|-------------------------------------|
| Power Meter (Kwh): <u>7492</u> | Max. Temperature (°F): |
| Max. Humidity (%RH): | Ventilation Fan(s): ON / OFF |
| Surge Suppression: ON / OFF | Controller Battery Voltage (volts): |

TROUBLESHOOTING

| | |
|--|--------------------------------------|
| Ozone Detector Fault: YES / NO | 16A Breaker Fault: YES / NO |
| Panel GFI Fault: YES / NO | Main Circuit Breaker Fault: YES / NO |
| Controller Fault: YES / NO | Fasteners/Fittings: |
| Solenoid Malfunction: 1 2 3 4 5 6 7 8 9 10 11 12 | Correct Controller Program: YES / NO |
| Tubing: | Wires: |

MAINTENANCE

| | |
|--|--------------------------------------|
| O ₂ Concentrator Filter: YES / NO | Reset Temperature/Humidity: YES / NO |
| Compressor Filter: YES / NO | Check Peroxide Level: YES / NO |

OP

Project Name: BULK PLANT
Project No.: 4629.03
Task: 413
Date: 4/15/2005
PM: CW

Tech: BNN
Mobe/Demobe time: 1/1.5
Travel time: 5/1.5
Time on site: 1100
Time off site: 1400
Mileage: N/A

SYSTEM READINGS

| UNIT: <u>C-SPARGER #5</u> | | | | UNIT: <u>LACO MASTER PANEL</u> | | | |
|---|-------------------------|--------------|--------------------------|---|-------------------------|--------------|---------------------------------|
| Master Panel Runtime (Hrs): <u>00377.23</u> | | | | Master Panel Runtime (Hrs): <u>00634.2</u> | | | |
| O ₂ Concentrator Runtime (Hrs): <u>2071.04</u> | | | | O ₂ Concentrator Runtime (Hrs): <u>N/A</u> | | | |
| System Clock Time: <u>SET 12:10 @ 12:10 PM</u> | | | | System Clock Time: <u>SET 107 @ 107</u> | | | |
| STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) | STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) |
| 1 | 25 | | | 1 | 19 | SP1U1 | |
| 2 | 24 | | | 2 | 20 | SP2U1 | |
| 3 | 34 | | | 3 | 18 | SP3U1 | |
| 4 | 27 | | | 4 | 19 | SP4U1 | |
| 5 | 30 | | | 5 | 21 | SP6U2 | |
| 6 | 23 | | | 6 | 21 | SP6U1 | |
| 7 | 24 | | | 7 | 25 | SP7U1 | |
| 8 | 23 | | | 8 | | | |
| 9 | 29 | | | 9 | | | |
| 10 | 26 | | | 10 | | | |
| 11 | 24 | | | 11 | | | |
| 12 | 27 | | | 12 | | | |

ANCILLARY INFORMATION

Power Meter (Kwh): 07492 Max. Temperature (°F): 114° F
Max. Humidity (%RH): H1 Ventilation Fan(s): ON/OFF
Surge Suppression: ON/OFF Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: YES (NO) 16A Breaker Fault: YES (NO)
Panel GFI Fault: YES (NO) Main Circuit Breaker Fault: YES (NO)
Controller Fault: YES (NO) Fasteners/Fittings: ✓
Solenoid Malfunction: 1 2 3 4 5 6 7 8 9 10 11 12 Correct Controller Program: (YES) NO
Tubing: ✓ Wires: ✓

MAINTENANCE

O₂ Concentrator Filter: OK YES/NO (YES) Reset Temperature/Humidity: (YES) NO
Compressor Filter: OK YES/NO (YES) Check Peroxide Level: N/A YES/NO

Bulk Plant UST / HPI-PFP 4629.03 Task 413

Program information as of ~~14/05/2004~~ 4/15/2005

LACO Master Panel #1

| Station# | Well # | Run Time |
|----------|--------|----------|
| 1 | SP1U1 | 15 |
| 2 | SP2U1 | 15 |
| 3 | SP3U1 | 15 |
| 4 | SP4U1 | 15 |
| 5 | SP6U2 | 1 |
| 6 | SP6U1 | 15 |
| 7 | SP7U1 | 15 |
| | | |
| | | |
| | | |
| | | |
| | | |

Laco Master Panel #1

| Start times | A | B | C |
|-------------|------|------|------|
| | | | |
| 1 | 1200 | 800 | 1600 |
| 2 | 200 | 1000 | 1800 |
| 3 | 400 | 1200 | 2000 |
| 4 | 600 | 1400 | 2200 |
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12 CYCLES PER DAY RUNTIME= 91 PER CYCLE

Project Name: BULK PLANT
Project No.: 4629.03
Task: H13
Date: 5/4/2005
PM: CJW

Tech: BUN
Mobe/Demobe time: .5/1.25
Travel time: 5/1.5
Time on site: 1000
Time off site: 1200
Mileage: 40

SYSTEM READINGS

| UNIT: <u>OXYGEN CONCENTRATOR #5</u> | | | | UNIT: | | | |
|---|-------------------------|---------------|--------------------------|--|-------------------------|--------------|--------------------------|
| Master Panel Runtime (Hrs): <u>N/A</u> | | | | Master Panel Runtime (Hrs): | | | |
| O ₂ Concentrator Runtime (Hrs): <u>N/A</u> | | | | O ₂ Concentrator Runtime (Hrs): | | | |
| System Clock Time: <u>N/A</u> | | | | System Clock Time: | | | |
| STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) | STATION | MANIFOLD PRESSURE (psi) | SPARGE POINT | WELL HEAD PRESSURE (psi) |
| 1 | 5.5 | SP101 | 5.5 | 1 | | | |
| 2 | 6 | SP201 | 6 | 2 | | | |
| 3 | 6 | SP301 | 6 | 3 | | | |
| 4 | 6 | SP401 | 6 | 4 | | | |
| 5 | 5.5 | SP601 | 5.5 | 5 | | | |
| 6 | 5.5 | SP701 | 5.5 | 6 | | | |
| 7 | | ALL ~ 8-9 LPM | | 7 | | | |
| 8 | | | | 8 | | | |
| 9 | | | | 9 | | | |
| 10 | | | | 10 | | | |
| 11 | | | | 11 | | | |
| 12 | | | | 12 | | | |

ANCILLARY INFORMATION

Power Meter (Kwh): 08183 Max. Temperature (°F): 96.1°F SHED / 135°F HEAD
Max. Humidity (%RH): H1 Ventilation Fan(s): ON OFF
Surge Suppression: ON OFF Controller Battery Voltage (volts): N/A

TROUBLESHOOTING

Ozone Detector Fault: YES NO 16A Breaker Fault: YES NO
Panel GFI Fault: YES NO Main Circuit Breaker Fault: YES NO
Controller Fault: YES NO Fasteners/Fittings: ✓
Solenoid Malfunction: 1 2 3 4 5 6 7 8 9 10 11 12 Correct Controller Program: YES NO
Tubing: ✓ Wires: ✓

MAINTENANCE

O₂ Concentrator Filter YES NO Reset Temperature/Humidity YES NO
Compressor Filter YES NO Check Peroxide Level N/A YES NO